Pioneer sound.vision.soul

Service Manual

ORDER NO.
RRV3762

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-918V-K
VSX-918V-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	The voltage can be converted by the following method.
VSX-918V-K	SDXJ	AC 110 V/120 V to 127 V/220 V/230 V to 240 V	With the voltage selector
VSX-918V-K	YPWXJ	AC 240 V	------
VSX-918V-S	YPWXJ	AC 240 V	------
VSX-918V-S	SFLXJ	AC 110 V/120 V to 127 V/220 V/230 V to 240 V	With the voltage selector
VSX-918V-S	NAXJ5	AC 220 V	------

This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
VSX-918V-K/MYSXJ5	RRV3736	

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS 2
2. SCHEMATIC DIAGRAM 5
   2.1 PRIMARY ASSY 5

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

ⓒPIONEER CORPORATION 2008

T-ZZK MAY 2008 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω → 56 x 10^1 → 561 ..... RD1/4PU561J
47kΩ → 47 x 10^3 → 473 ..... RD1/4PU473J
0.5Ω → R50 ..... RN2HR50K
1Ω → 1R0 ..... RS1P1R0K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ → 562 x 10^1 → 5621 ..... RN1/4PC5621F

CONTRAST TABLE

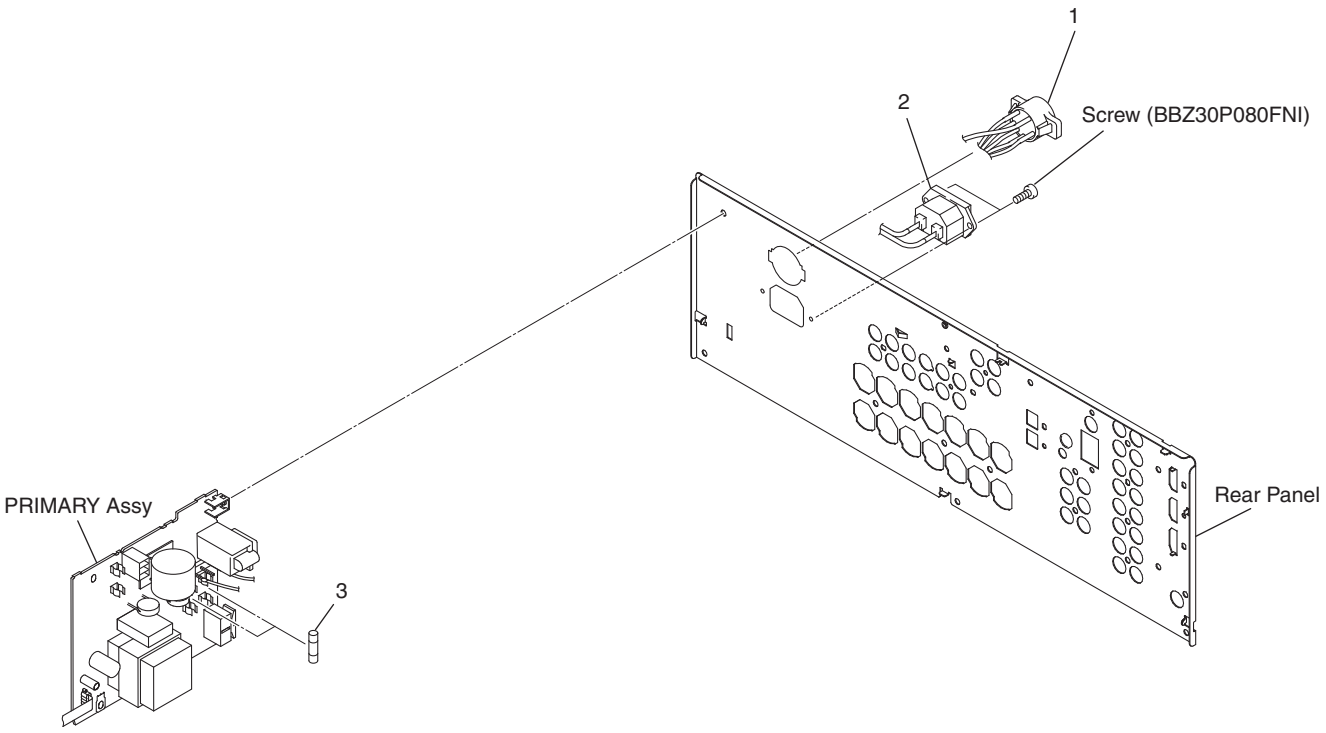
VSX-918V-K/MYSXJ5, VSX-918V-K/SDXJ, VSX-918V-K/YPWXJ, VSX-918V-S/YPWXJ, VSX-918V-S/SFLXJ and VSX-918V-S/NAXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-918V-K/ MYSXJ5	VSX-918V-K/ SDXJ	VSX-918V-K/ YPWXJ	VSX-918V-S/ YPWXJ	VSX-918V-S/ SFLXJ	VSX-918V-S/ NAXJ5	Remarks
		PCB ASSEMBLIES							
NSP		1..AMP Assy	XWK3349	XWK3351	XWK3351	XWK3351	XWK3351	XWK3351	
	P59-6	2..POWER PACK ASSY	XWZ4326	XWZ4328	XWZ4328	XWZ4328	XWZ4328	XWZ4328	
	P59-10	MAIN Assy	XWK3363	XWK3364	XWK3364	XWK3364	XWK3364	XWK3364	
NSP		1.COMPLEX Assy	XWK3341	XWK3342	XWK3343	XWK3343	XWK3342	XWK3343	
	P61-3	2..PRIMARY ASSY	XWZ4302	XWZ4303	XWZ4304	XWZ4304	XWZ4303	XWZ4304	
	P61-7	FM/AM TUNER Unit	AXX7170	AXX7211	AXX7211	AXX7211	AXX7211	AXX7211	*1
		PACKING SECTION							
	P57-4	Operating Instructions	XRB3091	XRB3092	XRB3092	XRB3092	XRB3092	Not used	
	P57-5	Label (WEEE)	ARW7322	Not used	Not used	Not used	Not used	Not used	
	P57-6	Remote Control	XXD3166	XXD3162	XXD3162	XXD3148	XXD3148	XXD3148	
	P57-13	Packing Case	XHD3764	XHD3766	XHD3766	XHD3767	XHD3767	XHD3768	
NSP	P57-16	Warranty Card	ARY7111	Not used	Not used	Not used	Not used	ARY7046	
	P57-17	Operating Instructions (Italian)	XRC3320	Not used	Not used	Not used	Not used	Not used	
	P57-18	Operating Instructions (Dutch)	XRC3321	Not used	Not used	Not used	Not used	Not used	
	P57-19	Operating Instructions (Spanish)	XRC3322	Not used	Not used	Not used	Not used	Not used	
	P57-20	Operating Instructions (French)	XRC3323	Not used	Not used	Not used	Not used	Not used	
	P57-21	Operating Instructions (German)	XRC3324	Not used	Not used	Not used	Not used	Not used	
	P57-22	Operating Instructions (Russian)	XRC3331	Not used	Not used	Not used	Not used	Not used	
		Operating Instructions (Trad-Chinese/Spanish)	Not used	XRC3327	Not used	Not used	XRC3327	Not used	
		Operating Instructions (Simp-Chinese)	Not used	Not used	Not used	Not used	Not used	XRC3329	
⚠		AC Power Cord	Not used	ADG7062	Not used	Not used	ADG7062	Not used	
⚠		AC Power Cord	Not used	Not used	Not used	Not used	ADG7100	Not used	
⚠		AC Power Cord	Not used	Not used	Not used	Not used	ADG7104	Not used	
⚠		AC Power Cord	Not used	Not used	Not used	Not used	XDG3034	Not used	
		J-shape Plug	Not used	AKX7008	AKX7008	AKX7008	AKX7008	AKX7008	
⚠		Power Plug Adapter	Not used	AKX7022	Not used	Not used	Not used	Not used	
		Caution Card 220 V	Not used	XRR3001	Not used	Not used	XRR3001	Not used	

Mark	No.	Symbol and Description	VSX-918V-K/ MYSXJ5	VSX-918V-K/ SDXJ	VSX-918V-K/ YPWXJ	VSX-918V-S/ YPWXJ	VSX-918V-S/ SFLXJ	VSX-918V-S/ NAXJ5	Remarks
		Caution Card SB	Not used	Not used	Not used	Not used	ARM7064	Not used	
		Caution Card SD SB	Not used	Not used	Not used	Not used	ARM7063	Not used	
		EXTERIOR SECTION							
	P59-31	Bonnet	XZN3196	XZN3196	XZN3196	XZN3197	XZN3197	XZN3197	
	P59-41	Screw	BBZ30P080FTB	BBZ30P080FTB	BBZ30P080FTB	BBZ30P080FNI	BBZ30P080FNI	BBZ30P080FNI	
		REAR PANEL SECTION							
⚠	P61-8	Fuse (FU1 : T3.15 A)	REK1027	RNot used	REK1027	REK1027	Not used	REK1027	
⚠	P61-8	Fuse (FU1 : T6.3 A)	Not used	REK1030	Not used	Not used	REK1030	Not used	
⚠	P61-9	AC Power Cord	VDG1080	Not used	XDG3017	XDG3017	Not used	VDG1088	
	P61-11	R Panel	XNC3539	XNC3541	XNC3610	XNC3611	XNC3542	XNC3543	
	P61-13	Cord Stopper	CM-22B	Not used	CM-22B	CM-22B	Not used	CM-22B	
NSP	P61-21	Fuse Card	AAX7493	XAX3218	AAX7493	AAX7493	XAX3218	AAX7493	
⚠		Voltage Selector (S1701)	Not used	AKX-507	Not used	Not used	AKX-507	Not used	No. 1
⚠		AC Inlet Assy	Not used	ADX7395	Not used	Not used	ADX7395	Not used	No. 2
⚠		Fuse (FU2, FU3: T3.15 A)	Not used	REK1027	Not used	Not used	REK1027	Not used	No. 3
NSP		CCC S&E Label	Not used	Not used	Not used	Not used	Not used	DRW2310	
NSP		Black Label	Not used	Not used	Not used	Not used	XAX3581	Not used	
		FRONT PANEL SECTION							
	P63-13	VOL Knob V4	XAB3053	XAB3053	XAB3053	XAB3056	XAB3056	XAB3056	
	P63-14	VOL Knob V5	XAB3058	XAB3058	XAB3058	XAB3059	XAB3059	XAB3059	
	P63-15	STANDBY BTN Assy	XAD3216	XAD3216	XAD3216	XAD3217	XAD3217	XAD3217	
NSP	P63-17	F Panel Assy	XXG3344	XXG3346	XXG3346	XXG3347	XXG3347	XXG3347	
	P63-18	FUNC BTN	XAD3257	XAD3257	XAD3257	XAD3258	XAD3258	XAD3258	
	P63-19	SUB BTN	XAD3259	XAD3259	XAD3259	XAD3260	XAD3260	XAD3260	
	P63-20	TUNER BTN	XAD3261	XAD3261	XAD3261	XAD3262	XAD3262	XAD3262	
	P63-22	Pioneer Name Plate	XAM3006	XAM3006	XAM3006	VAM1129	VAM1129	VAM1129	
	P63-23	FRT Panel	XMB3293	XMB3295	XMB3295	XMB3296	XMB3296	XMB3296	
	P63-28	Inp. Cover	XAK3596	XAK3596	XAK3596	XAK3597	XAK3597	XAK3597	

Notes : The numbers in the remarks column correspond to the numbers on the "EXPLODED VIEWS".
For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES" and "2. SCHEMATIC DIAGRAM".
*1 : FM/AM TUNER Unit has no service parts.

EXPLODED VIEWS
REAR SECTION



CONTRAST OF PCB ASSEMBLIES

AF MAIN ASSY

XWK3363 and XWK3364 are constructed the same except for the following:

Mark	Symbol and Description	XWK3363	XWK3364	Remarks
	IC5001	LC72725KM	Not used	
	X5001 CRYSTAL RESONATOR (4.332 MHz)	ASS7004	Not used	
	R5010, R5011	RS1/16S473J	Not used	
	R5012, R5013	RS1/16S102J	Not used	
	R9025	RS1/16S332J	RS1/16S562J	
	R9042-R9044	RS1/16S103J	Not used	
	C101-C114, C181-C192, C197, C198	CCSRCH101J50	Not used	
	C5011	CEJQ100M50	Not used	
	C5013, C5014	CCSRCH270J50	Not used	
	C5015	CEJQ470M16	Not used	
	C5016	CKSRYB103K50	Not used	
	C5017	CCSRCH561J50	Not used	
	C5020	CKSRYB472K50	Not used	

CF POWER PACK ASSY

XWZ4326 and XWZ4328 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4326	XWZ4328	Remarks
	R709, R710	Not used	RS1LMF272J	*1

*1 Refer to the stby parts of "10.8 POWER PACK ASSY (1/2)" on the service manual RRV3736.

QF PRIMARY ASSY

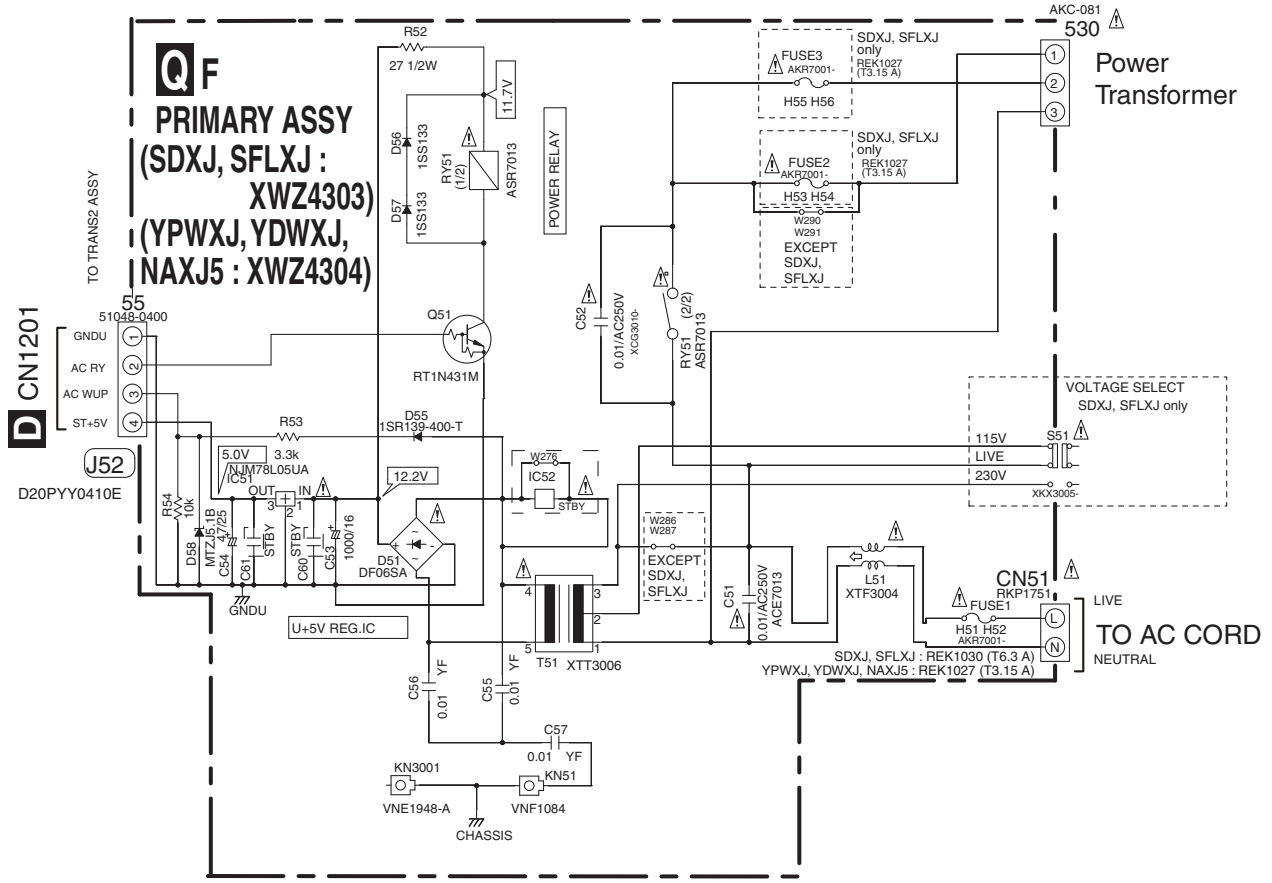
XWZ4302, XWZ4303 and XWZ4304 are constructed the same except for the following:

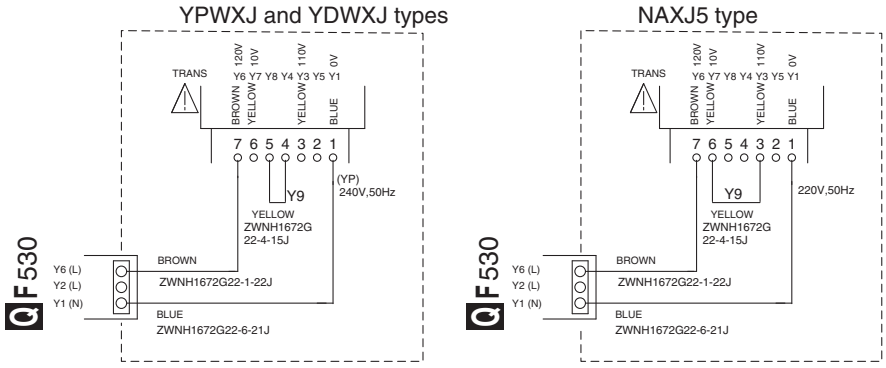
Mark	Symbol and Description	XWZ4302	XWZ4303	XWZ4304	Remarks
	H53-H56 Fuse Clip	Not used	AKR7001	Not used	
⚠	T51 Standby Transformer	ATT7040	XTT3006	XTT3006	
⚠	S51 Voltage Select SW	Not used	XKX3005	Not used	

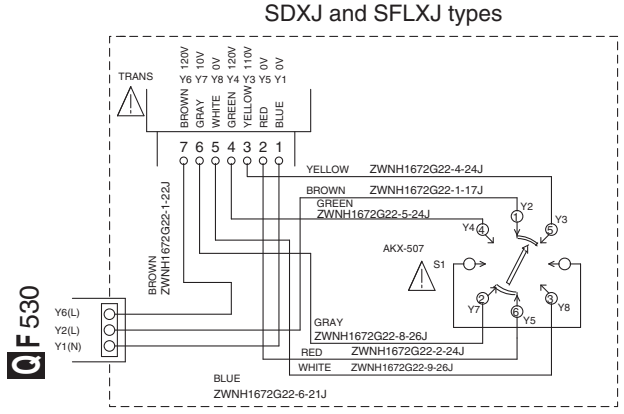
2. SCHEMATIC DIAGRAM
2.1 PRIMARY ASSY

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

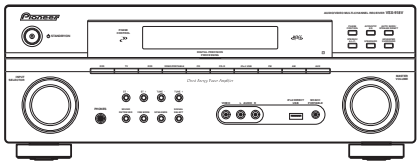






Pioneer sound.vision.soul

Service Manual



VSX-918V-K

ORDER NO.
RRV3736

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-918V-K
VSX-918V-S
VSX-818V-K
VSX-818V-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-918V-K	MYSXJ5	AC 220 V to 230 V	
VSX-918V-S	MYSXJ5	AC 220 V to 230 V	
VSX-818V-K	MYSXJ5	AC 220 V to 230 V	
VSX-818V-S	MYSXJ5	AC 220 V to 230 V	

For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2008**

T-ZZK MAR. 2008 Printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 Ð Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

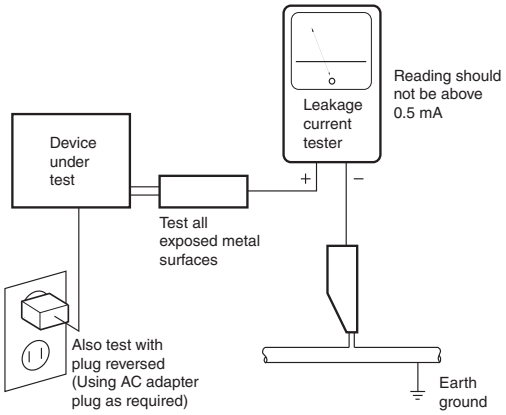
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Leakage current tester
Reading should not be above 0.5 mA
Device under test
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

CONTENTS

SAFETY INFORMATION 2
1. SERVICE PRECAUTIONS 5
1.1 NOTES ON SOLDERING 5
1.2 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART 5
2. SPECIFICATIONS 6
2.1 SPECIFICATIONS 6
2.2 PANEL FACILITIES 7
3. BASIC ITEMS FOR SERVICE 13
3.1 CHECK POINTS AFTER SERVICING 13
3.2 JIGS LIST 13
3.3 PCB LOCATIONS 14
4. BLOCK BIAGRAM 16
4.1 OVERALL WIRING CONNECTION DIAGRAM (VSX-918V) 16
4.2 OVERALL WIRING CONNECTION DIAGRAM (VSX-818V) 18
4.3 BLOCK DIAGRAM (VSX-918V) 20
4.4 BLOCK DIAGRAM (VSX-818V) 22
4.5 DSP BLOCK DIAGRAM 24
4.6 HDMI BLOCK DIAGRAM 25
4.7 USB BLOCK DIAGRAM 26
5. DIAGNOSIS 27
5.1 DIAGNOSIS FLOWCHART 27
5.2 DETECTION CIRCUIT 45
5.3 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION 47
6. SERVICE MODE 49
7. DISASSEMBLY 50
8. EACH SETTING AND ADJUSTMENT 55
8.1 HOW TO UPDATE FIRMWARE 55
9. EXPLODED VIEWS AND PARTS LIST 56
9.1 PACKING SECTION 56
9.2 EXTERIOR SECTION 58
9.3 REAR PANEL SECTION 60
9.4 FRONT PANEL SECTION 62
10. SCHEMATIC DIAGRAM 64
10.1 MAIN ASSY (1/3) 64
10.2 MAIN ASSY (2/3) 66
10.3 MAIN ASSY (3/3) 68
10.4 DSP & USB ASSY (1/4) 70
10.5 DSP & USB ASSY (2/4) 72
10.6 DSP & USB ASSY (3/4) 74
10.7 DSP & USB ASSY (4/4) 76
10.8 POWER PACK (1/2) and TRANS2 ASSYS 78
10.9 POWER PACK ASSY (2/2) 80
10.10 COMPONENT VIDEO, 5.1CH INPUT and TRANS3 ASSYS 82
10.11 FRONT DISPLAY, ROTARY ENCODER, POWER KEY and JOG ASSYS 84
10.12 DIGITAL INPUT, REGULATOR and HEAD PHONE ASSYS 86
10.13 VIDEO, PRIMARY and FRONT VIDEO ASSYS 88
10.14 FRONT IN ASSY 90
10.15 HDMI & DSP & USB ASSY (1/5) 92
10.16 HDMI & DSP & USB ASSY (2/5) 94
10.17 HDMI & DSP & USB ASSY (3/5) 96
10.18 HDMI & DSP & USB ASSY (4/5) 98
10.19 HDMI & DSP & USB ASSY (5/5) 100
11. PCB CONNECTION DIAGRAM 102
11.1 DSP & USB and HDMI ASSYS 102
11.2 MAIN ASSY 106
11.3 POWER PACK ASSY 110
11.4 TRANS2 and TRANS3 ASSYS 114
11.5 COMPONENT VIDEO ASSY 116
11.6 5.1CH INPUT and HEAD PHONE ASSYS 117
11.7 FRONT DISPLAY, ROTARY ENCODER, POWER KEY and JOG ASSYS 118
11.8 DIGITAL INPUT and FRONT VIDEO ASSYS 122
11.9 REGULATOR ASSY 123
11.10 VIDEO ASSY 124
11.11 FRONT IN ASSY 125
11.12 PRIMARY ASSY 126
11.13 HDMI & DSP & USB ASSY 128
12. ELECTRICAL PARTS LIST 132

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

1.2 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

When DC detection is activated ("AMP_ERR" flashes on the display), failure (damage) of the power amplifier section is considered.

Caution:
When releasing the lock state of power key before repair, please be careful because there is the possibility that more damages will occur when turning on the power once again!

- According to a symptom, perform the following confirmation beforehand.

1) Are there any Fuses and IC protectors open?
↓
2) After turn on the power, confirm that the supply voltage of the point that can be measured is appropriate. (Particularly the supply voltage of the power Tr and drive step)
↓
3) Whether the voltage of pin2 and pin5 of IC601 or IC603 is equal to (VL-0.7V). If not (eg, equal to VH), then change the corresponding power pack IC601 or IC603.
↓
4) Furthermore, check the output DC voltage of each channel of power pack IC601 and IC603 to limit the failure channel and identify the defect power pack.

↓
- After identify the failure channel, check that each part is not damaged (resistor, diode... etc. value / open / short)

2. SPECIFICATIONS
2.1 SPECIFICATIONS

Amplifier section

- **Continuous power output (stereo)**

Front. . . . . .100 W + 100 W
(DIN 1 kHz, THD 1.0 %, 8 Ω)

- **Rated power output**

(surround / 20 Hz to 20 kHz, THD 0.06 %, 8 Ω)
Front. . . . . .95 W per channel
Center . . . . . .95 W
Surround. . . . . .95 W per channel

- **Rated power output**

(surround / 1 kHz, THD 1.0 %, 8 Ω)
Front. . . . . .130 W per channel
Center . . . . . .130 W
Surround. . . . . .130 W per channel

Audio section

- **Input (Sensitivity/Impedance)**

AUX, CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR. . . . . .335 mV/47 kΩ

- **Frequency response**

AUX, CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR. . . . . 5 Hz to 100 000 Hz $^{+0}_{-3}$ dB

- **Output (Level/Impedance)**

CD-R/TAPE/MD, DVR/VCR . . . . . 335 mV/2.2 kΩ

- **Tone control**

Bass. . . . . ± 6 dB (100 Hz)
Treble. . . . . .± 6 dB (10 kHz)
Loudness. . . . . +10 dB/+5 dB (100 Hz/10 kHz)
(at volume level –50 dB)

- **Signal-to-Noise Ratio DIN (Continuous rated power output / 50 mW)**

AUX, CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR. . . . . 88 dB/64 dB

Video Section

- **Input (Sensitivity/Impedance)**

DVR/VCR, DVD/BD, TV/SAT. . . . . .1 Vp-p/75 Ω

- **Output (Level/Impedance)**

DVR/VCR, MONITOR OUT. . . . . .1 Vp-p/75 Ω

- **Frequency response**

DVR/VCR, DVD/BD,
TV/SAT ⇨ MONITOR . . . . . .5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio . . . . . .55 dB
Crosstalk . . . . . .50 dB

Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

“DTS” is a registered trademark of DTS, Inc. and “DTS 96/24” is a trademark of DTS, Inc.

Component video section

- **Input (Sensitivity/Impedance)**

DVD/BD, TV/SAT, DVR/VCR. . . . . .1 Vp-p/75 Ω

- **Output (Level/Impedance)**

MONITOR OUT . . . . . .1 Vp-p/75 Ω

- **Frequency response**

DVD/BD, TV/SAT,
DVR/VCR⇨ MONITOR . . .5 Hz to 40 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio . . . . . .60 dB

HDMI Section

Input. . . . . 19 pin x2
Output . . . . . .19 pin (5 V, 55 mA)

FM Tuner Section

Frequency Range . . . . . .87.5 MHz to 108 MHz
Usable Sensitivity . . . . . Mono:13.2 dBf, IHF
(1.3 µV/75 Ω)
50 dB Quieting Sensitivity . . . . . .Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio . . .Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion. . . . . Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity. . . . . .60 dB
(400 kHz)
Stereo Separation. . . . . 40 dB (1 kHz)
Frequency Response . . . . . .30 Hz to 15 kHz
(±1 dB)
Antenna Input (DIN). . . . . 75 Ω unbalanced

AM Tuner Section

Frequency Range . . . . . .531 kHz to 1602 kHz
Sensitivity (IHF, Loop antenna) . . . . . .350 µV/m
Signal-to-Noise Ratio . . . . . .50 dB
Antenna. . . . . Loop antenna

Miscellaneous

Power requirements
. . . . . AC 220 V to 230 V, 50 Hz/60 Hz
Power consumption . . . . . .290 W
In standby. . . . . 0.5 W
Dimensions
. . . . . 420 mm (W) x 158 mm (H) x 352.5 mm (D)
Weight (without package). . . . . 8.1 kg

Furnished Parts

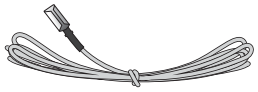
Microphone (for Auto MCACC setup) 1
Remote control 1
Dry cell batteries (AA size IEC R6) 2
AM loop antenna. 1
FM wire antenna 1
Warranty card 1
Operating instructions

Note

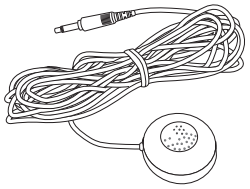
- Specifications and the design are subject to possible modifications without notice, due to improvements.

Accessories

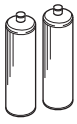
AM loop antenna
(ATB7013)



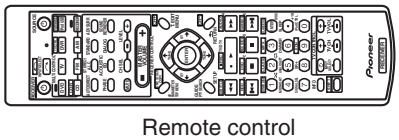
FM wire antenna
(ADH7030)



Microphone
(for Auto MCACC setup)
(APM7008)



AA size IEC R6
Dry cell batteries (x2)

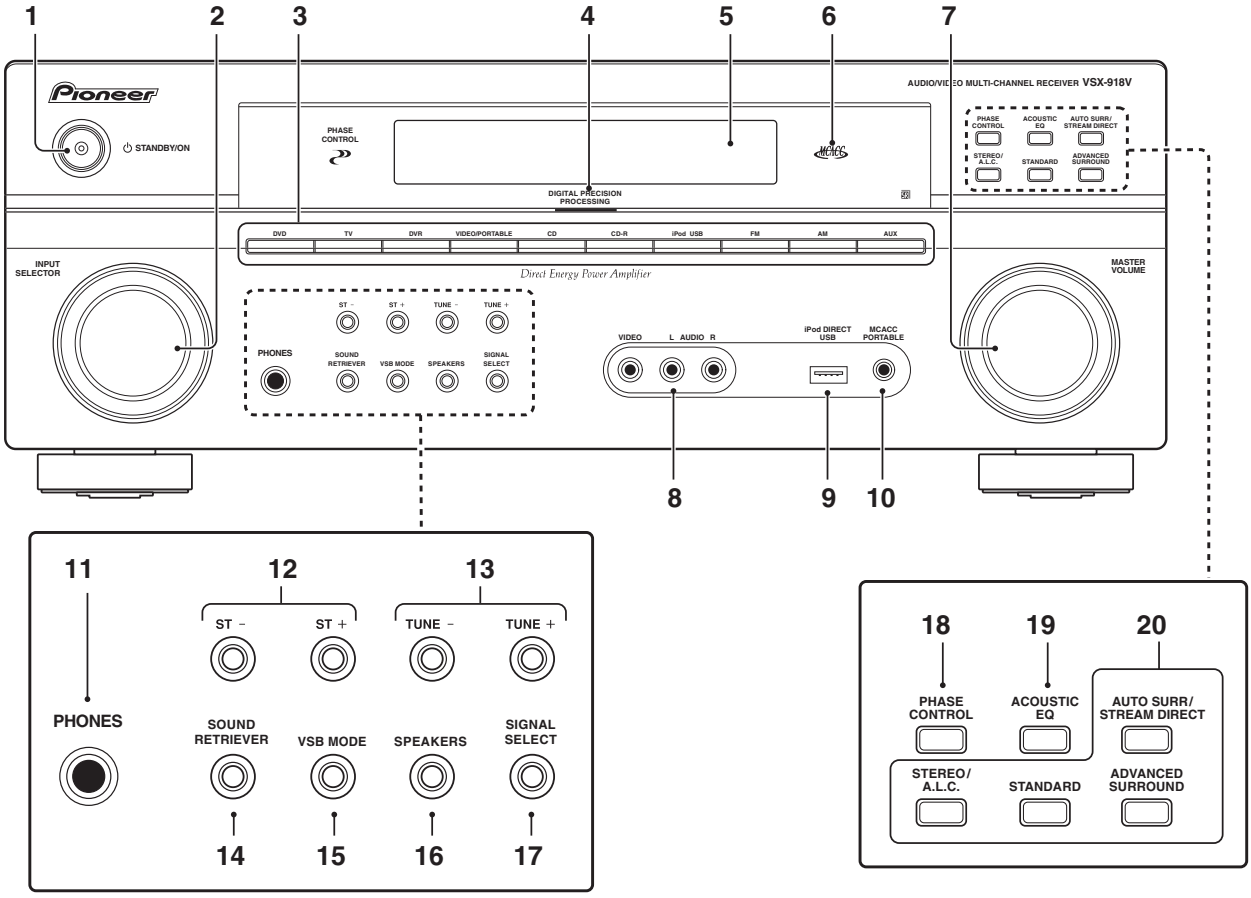


Remote control
(VSX-918V-K : XXD3166)
(VSX-918V-S : XXD3167)
(VSX-818V-K : XXD3166)
(VSX-818K-S : XXD3167)

2.2 PANEL FACILITIES

Front panel

Illustration shows the VSX-918V model



1 ⏻ STANDBY/ON

2 INPUT SELECTOR dial
Selects an input source.

3 Input select buttons
Selects an input source.

4 Digital Precision Processing indicator
(VSX-918V model only)
Lights to indicate digital processing.

5 Character display

6 MCACC indicator
Lights when Acoustic Calibration EQ is on (Acoustic Calibration EQ is automatically set to **ALL CH ADJUST** after the Auto MCACC Setup or EQ Auto Setup).

7 MASTER VOLUME dial

8 AUDIO/VIDEO input

9 iPod DIRECT USB terminal
Use to connect your Apple iPod as an audio source, or connect a USB audio device for playback.

10 MCACC PORTABLE jack
Use to connect a microphone when performing Auto MCACC setup, or connect an auxiliary component using a stereo mini-jack cable.

11 PHONES jack
Use to connect headphones (when connected, there is no sound output from the speakers (except speaker system B connections)).

12 ST +/–
Use to select preset radio stations.

13 TUNE +/–
Used to find radio frequencies.

14 SOUND RETRIEVER
Press to restore CD quality sound to compressed audio sources.

15 VSB MODE
Press to switch on/off Virtual Surround Back (VSB) mode.

16 SPEAKERS
Use to change the speaker system and the impedance setting.

17 SIGNAL SELECT
Selects an input signal.

18 PHASE CONTROL
Press to switch on/off Phase Control.

19 ACOUSTIC EQ
Press to select an Acoustic Calibration EQ setting.

20 Listening mode buttons

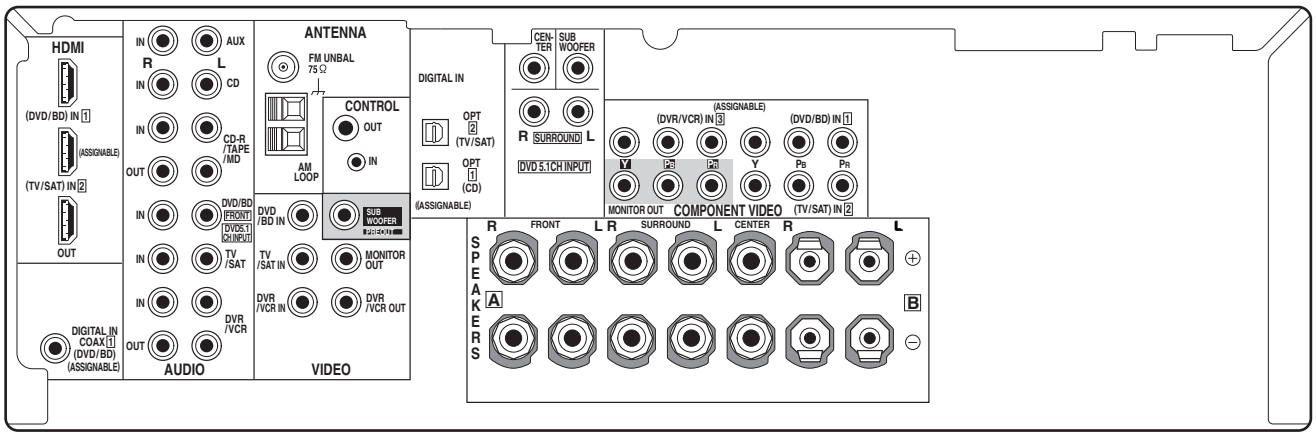
AUTO SURR/STREAM DIRECT
Switches between Auto surround mode (Auto playback on) and Stream Direct playback. Stream Direct playback bypasses the tone controls for the most accurate reproduction of a source.

STEREO/A.L.C.
Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

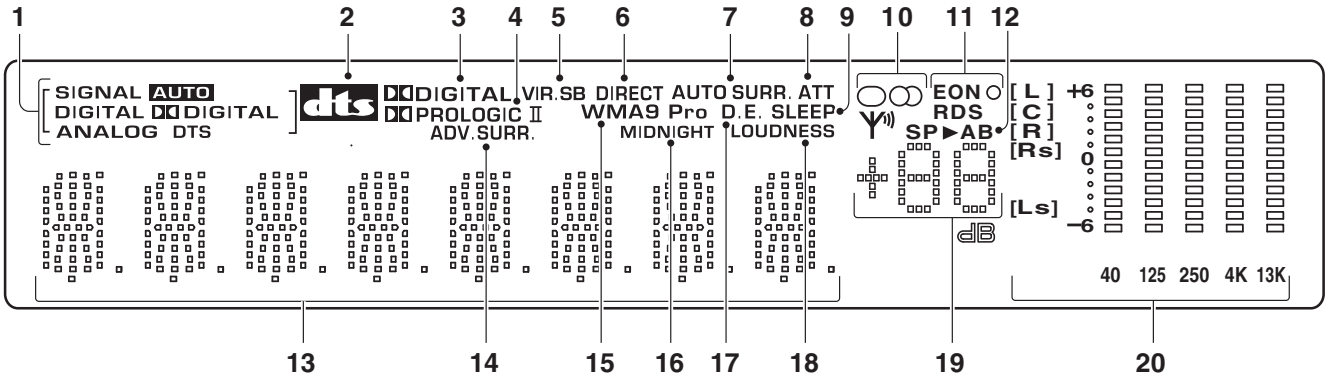
STANDARD
Press for Standard decoding and to switch between the various DD Pro Logic II options.

ADVANCED SURROUND
Switches between the various surround modes.

VSX-918V



Display



1 SIGNAL indicators

Lights to indicate the type of input signal:

AUTO
Lights when **AUTO** signal select is on.

DIGITAL
Lights when a digital audio signal is detected.

DIGITAL
Lights when a Dolby Digital encoded signal is detected.

ANALOG
Lights when an analog signal is detected.

DTS
Lights when a source with DTS encoded audio signals is detected.

2
Lights to indicate decoding of a DTS multichannel signal.

3 DIGITAL
Lights to indicate decoding of a Dolby Digital multichannel signal.

4 PRO LOGIC II
Lights to indicate Pro Logic II decoding.

5 VIR. SB
Lights during Virtual surround back processing.

6 DIRECT
Lights when source Stream Direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

7 AUTO SURR.
Lights when the Auto Surround feature is switched on.

8 ATT
Lights when **ANALOG ATT**is used to attenuate (reduce) the level of the analog input signal.

9 SLEEP
Lights when the sleep mode is active.

10 Tuner indicators

/ MONO
Lights when the mono mode is set using the **MPX** button.

/ STEREO
Lights when a stereo FM broadcast is being received in auto stereo mode.

/ TUNED
Lights when a broadcast is being received.

11 EON/RDS indicators

EON
Lights when the EON mode is set, and flashes during an EON broadcast. The o indicator lights when the current station carries the EON service.

RDS
Lights when an RDS broadcast is received.

12 Speaker indicators
Lights to indicate the current speaker system, **A** and/or **B**.

13Character display

14 ADV.SURR. (Advanced Surround)
Lights when one of the Advanced Surround modes has been selected.

15 WMA9 Pro
Lights to indicate decoding of a WMA9 Pro signal.

16 MIDNIGHT
Lights during Midnight listening.

17 D.E.
Lights when Dialog Enhancement is switched on.

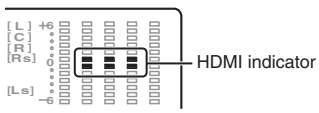
18 LOUDNESS
Lights during Loudness listening.

19Master volume level
Shows the overall volume level.

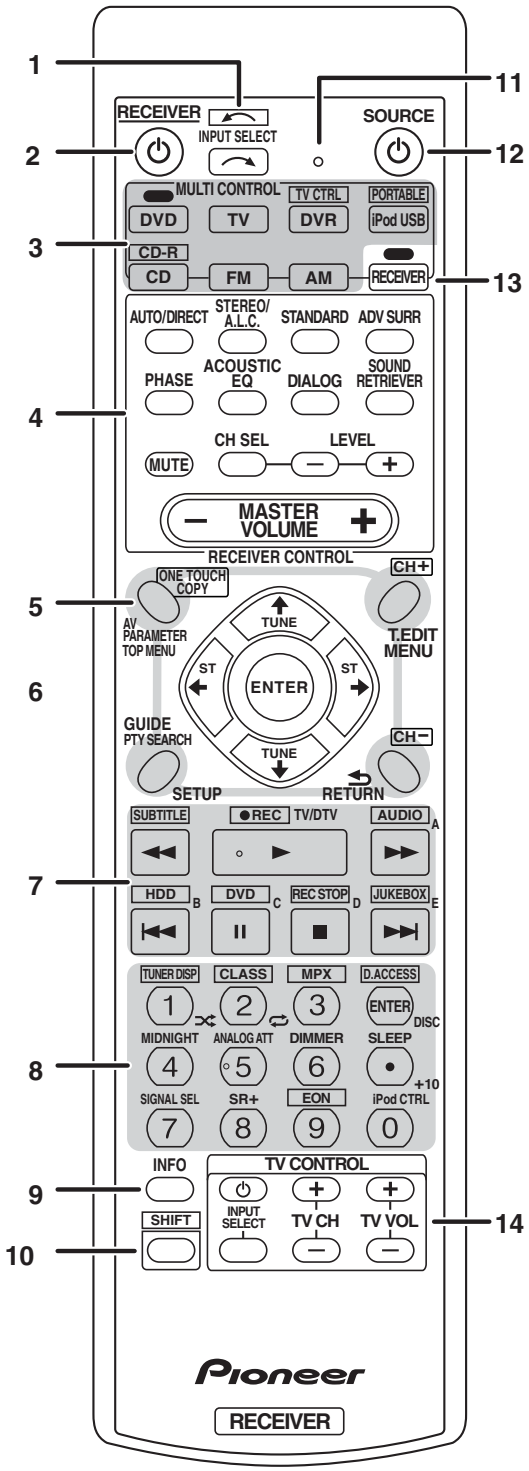
20 MCACC channel EQ / Sound Retriever / HDMI indicators
These indicators show the EQ balance for each channel in Checking your Acoustic Calibration EQ settings. Also, **L** and **R** light when the Sound Retriever is active.

In addition, the HDMI connection state is displayed as shown below.

Blinks when connecting an HDMI-equipped component: lights when the component is connected.



Remote control Illustration shows the VSX-918V model



1 INPUT SELECT
Use to select the input source (use **SHIFT** for **INPUT SELECT**).

2 ⏻ RECEIVER
Switches the receiver between standby and on.

3 MULTI CONTROL buttons
Press to select control of other components.

TV CTRL, **PORTABLE** and **CD-R** buttons can be used with **SHIFT** button.

4 RECEIVER CONTROL buttons

AUTO/DIRECT
Switches between Auto surround mode (Auto playback on) and Stream Direct playback. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

STEREO/A.L.C.
Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

STANDARD
Press for Standard decoding and to switch between DD Pro Logic II options.

ADV SURR
Switches between the various surround modes.

PHASE
Press to switch on/off Phase Control.

ACOUSTIC EQ
Press to select an Acoustic Calibration EQ setting.

DIALOG
Use to make dialog stand out when watching TV or a movie.

SOUND RETRIEVER
Press to restore CD quality sound to compressed audio sources.

MUTE
Mutes/unmutes the sound.

CH SEL
Press repeatedly to select a channel, then use **LEVEL +/–**to adjust the level.

LEVEL +/–
Use to adjust the channel levels.

MASTER VOLUME +/–
Use to set the listening volume.

5 System Setup and Component control buttons
The following button controls can be accessed after you have selected the corresponding **MULTI CONTROL** button (**DVD**,**DVR**, **RECEIVER**, etc.).

AV PARAMETER
Use to access the AV options.

TOP MENU
Displays the disc ‘top’ menu of a DVD.

ONE TOUCH COPY*
Copies the currently playing title from DVD to HDD or vice-versa.

GUIDE
Displays/changes the subtitles on multilingual DVDs.

PTY SEARCH
Use to search for RDS program types.

SETUP
Press to access the System Setup menu. Also functions as the **SETUP** button for DVD/DVR units.

T.EDIT
Memorizes/names stations for recall.

MENU
Displays the disc menu of DVD-Video discs.

RETURN
Confirm and exit the current menu screen.

CH +/–*
Use to select channels for DVD/DVR units.

6 ↑↓←→ (TUNE↑/↓, ST←/→), ENTER
Use the arrow buttons when setting up your surround sound system. Also used to control DVD menus/options.

Use the **TUNE↑/↓** buttons can be used to find radio frequencies and the **ST←/→** buttons can be used to select preset radio stations.

7 Component control buttons
The main buttons (▶, ■, etc.) are used to control a component after you have selected it using the **MULTI CONTROL** buttons.

The controls above these buttons can be accessed after you have selected the corresponding **MULTI CONTROL** button (for example **DVD**,**DVR**or**TV**(when connected to a DTV)).

SUBTITLE*
Displays/changes the subtitles included in multilingual DVD-Video discs.

● REC*
Start recording.

AUDIO*
Changes the audio language or channel on DVD discs.

HDD*, DVD*
These buttons switch between the hard disk and DVD controls for HDD/DVD recorders.

REC STOP*
Stops recording.

JUKEBOX*
Switches to the Jukebox feature.

TV/DTV
Switches between the analog TV and DTV input modes for Pioneer flat screen TVs.

8 Number buttons and other component controls
Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc. There are other buttons that can be accessed after the **RECEIVER** button is pressed. (For example **MIDNIGHT**, etc.)

TUNER DISP*
Switches between named station presets and radio frequencies.

CLASS*
Switches between the three banks (classes) of radio station presets.

MPX*
Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

D.ACCESS*
After pressing, you can access a radio station directly using the number buttons.

MIDNIGHT
Switches to Midnight or Loudness listening.

ANALOG ATT
Attenuates (lowers) the level of an analog input signal to prevent distortion.

DIMMER
Dims or brightens the display.

SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**). You can check the remaining sleep time at any time by press**SLEEP** once.

SIGNAL SEL
Use to select an input signal.

SR + (VSX-918V model only)
Switches the SR+ mode on/off.

EON*
Use to search for programs that are broadcasting traffic or news information.

iPod CTRL
Switches between the iPod controls and the receiver controls.

DISC (ENTER)
Use to enter commands for TV or DTV, and also use to select a disc in a multi-CD player.

9 INFO
Use to bring up information screens on a digital TV.

10 SHIFT
Press to access the 'boxed' commands (above the buttons) on the remote. These buttons are marked with an asterisk (*****) in this section.

11 Remote control LED
Lights when a command is sent from the remote control.

12 ⏻ SOURCE
Press to turn on/off other components connected to the receiver.

13 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**SETUP**, etc)). Also use this button to set up surround sound.

14 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL MULTI CONTROL** button. If you have two TVs, assign the main TV to the **TV CTRL**button.

⏻ Use to turn on/off the power of the TV.

INPUT SELECT
Use to select the TV input signal.

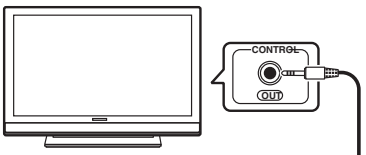
TV CH +/–
Use to select channels.

TV VOL +/–
Use to adjust the volume on your TV.

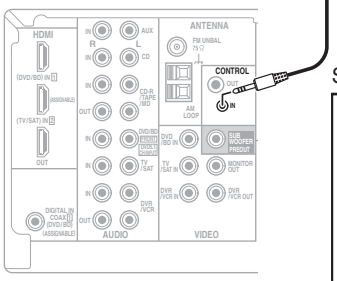
Using this receiver with a Pioneer flat screen TV

(VSX-918V model only)

If you have a Pioneer flat screen TV [1], you can use an SR+ cable to connect it to this unit and take advantage of various convenient features, such as automatic video input switching of the flat screen TV when the input is changed.



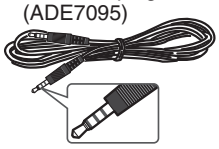
Pioneer flat screen TV



VSX-918V

SERVICE PARTS

- SR+ mini-plug cable (ADE7095)

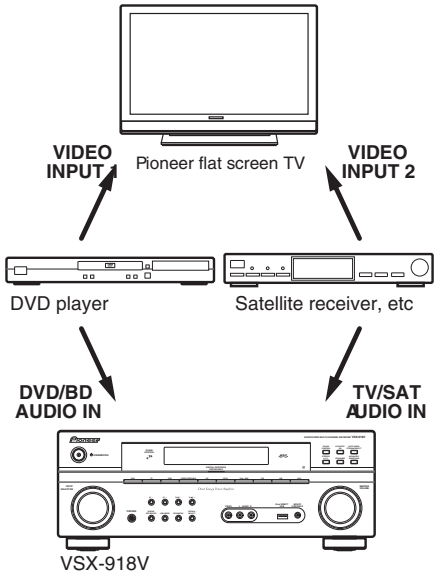


Note

1 This receiver is compatible with all Pioneer flat screen TVs from 2003 onward.

- **Use a 3-ringed miniplug SR+ cable [1] to connect the CONTROL IN jack of this receiver with the CONTROL OUT of your flat screen TV.**

Before you can use the extra SR+ features, you need to make a few settings in the receiver.

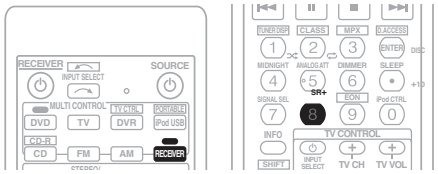


To make the most of the SR+ features, you should connect your source components (DVD player, etc.) in a slightly different way to that described in this chapter. For each component, connect the video output directly to the flat screen TV, and just connect the audio (analog and/or digital) to this receiver.

Using the SR+ mode with a Pioneer flat screen TV

When connected using an SR+ cable, a number of features become available to make using this receiver with your Pioneer flat screen TV even easier. These features include:

- On-screen volume display.
- On-screen display of listening mode.
- Automatic video input switching on the flat screen TV.
- Automatic volume muting on the flat screen TV.[2]



1 Make sure that the flat screen TV and this receiver are switched on and that they are connected with the SR+ cable.

2 To switch SR+ mode on/off, press RECEIVER, then the SR+ button.

The front panel display shows SR+ ONorOFF.

Note

1• The 3-ringed SR+ cable from Pioneer is commercially available under the part number ADE7095. Contact the Pioneer Customer Support division for more information on obtaining an SR+ cable (you can also use a commercially available 3-ringed mini phone plug for the connection).

• If you connect to a Pioneer flat screen TV using an SR+ cable, you will need to point the remote control at the flat screen TV remote sensor to control the receiver. In this case, you won't be able to control the receiver using the remote control if you switch the flat screen TV off.

2 The automatic volume muting feature is enabled separately.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedure	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio:

Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

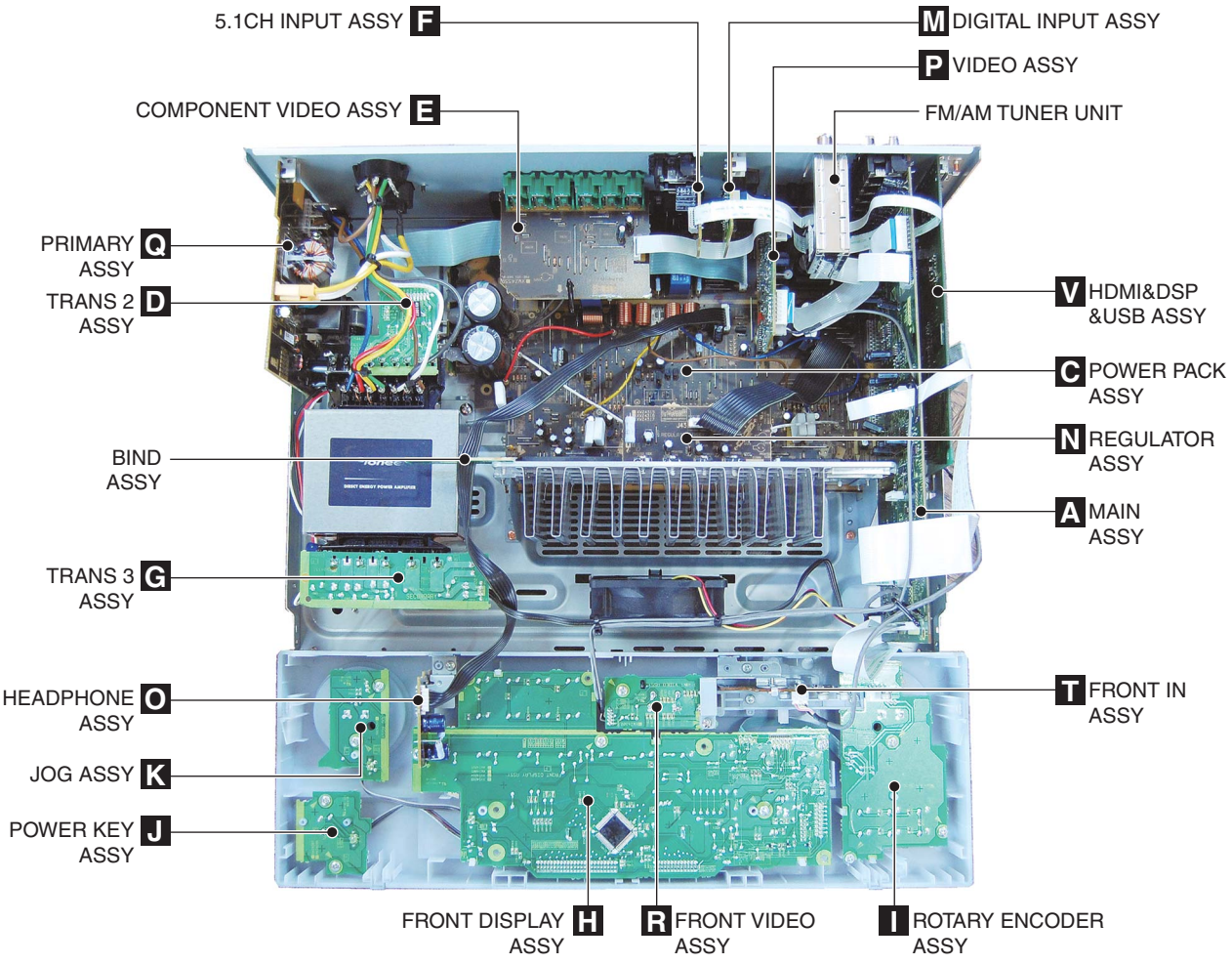
3.2 JIGS LIST

■ Jigs list

Name	Jig No.	Remarks
13P board to board extension jig cable	GGD1483	Diagonosis
21P board to board extension jig cable	GGD1485	Diagonosis

3.3 PCB LOCATIONS

VSX-918V

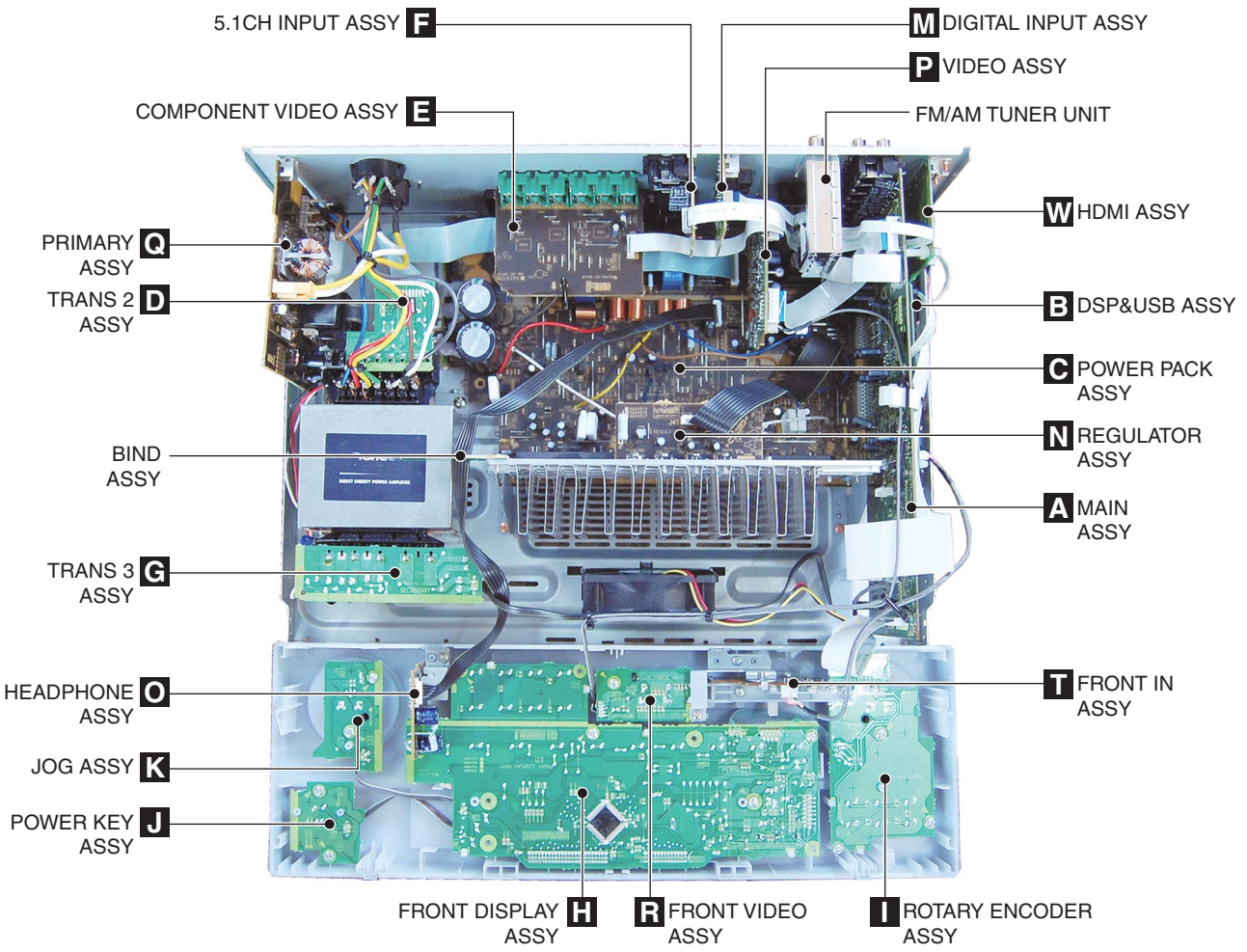


NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	HDMI&DSP&USB ASSY	AWX8977
NSP	1	COMPLEX ASSY	XWK3341
	2	FRONT DISPLAY ASSY	XWZ4285
	2	ROTARY ENCODER ASSY	XWZ4286
	2	POWER KEY ASSY	XWZ4288
	2	JOG ASSY	XWZ4289
	2	VIDEO ASSY	XWZ4294
	2	DIGITAL INPUT ASSY	XWZ4299
	2	FRONT VIDEO ASSY	XWZ4300
	2	PRIMARY ASSY	XWZ4302
	2	REGULATOR ASSY	XWZ4317
	2	HEADPHONE ASSY	XWZ4321
NSP	1	AMP ASSY	XWK3349
	2	POWER PACK ASSY	XWZ4326
	2	TRANS 2 ASSY	XWZ4335
	2	TRANS 3 ASSY	XWZ4337
	2	COMPONENT VIDEO ASSY	XWZ4339
	2	5.1CH INPUT ASSY	XWZ4341
	2	BIND ASSY	XWZ4344
	1	MAIN ASSY	XWK3363
	1	FRONT IN ASSY	XWK3366
	1	FM/AM TUNER UNIT	AXX7170

VSX-818V



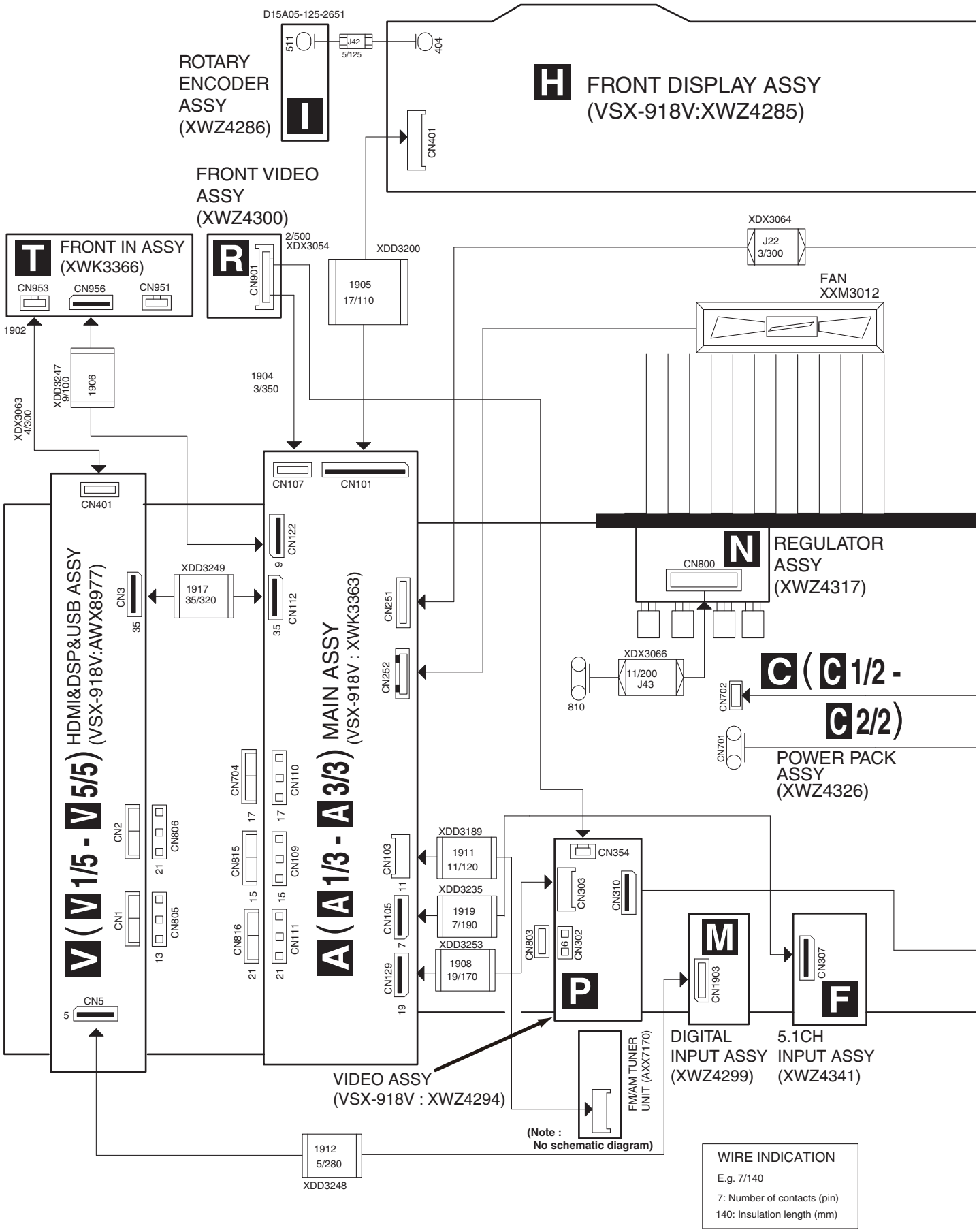
NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

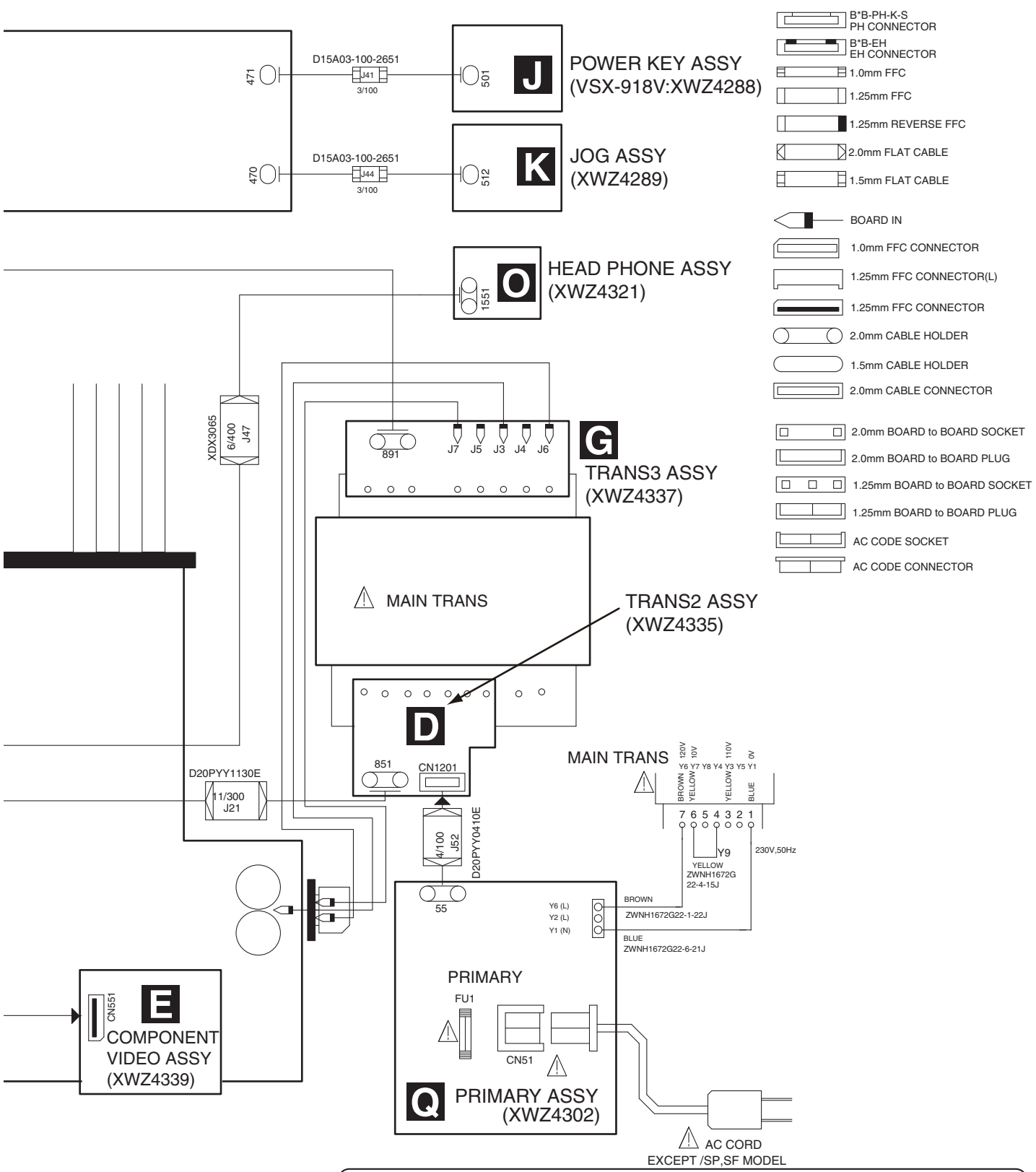
LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	HDMI ASSY	AWX8966
	1	DSP&USB ASSY	AWX9164
NSP	1	COMPLEX ASSY	XWK3336
	2	FRONT DISPLAY ASSY	XWZ4284
	2	ROTARY ENCODER ASSY	XWZ4286
	2	POWER KEY ASSY	XWZ4287
	2	JOG ASSY	XWZ4289
	2	VIDEO ASSY	XWZ4292
	2	DIGITAL INPUT ASSY	XWZ4299
	2	FRONT VIDEO ASSY	XWZ4300
	2	PRIMARY ASSY	XWZ4302
	2	REGULATOR ASSY	XWZ4317
	2	HEADPHONE ASSY	XWZ4321
NSP	1	AMP ASSY	XWK3349
	2	POWER PACK ASSY	XWZ4326
	2	TRANS 2 ASSY	XWZ4335
	2	TRANS 3 ASSY	XWZ4337
	2	COMPONENT VIDEO ASSY	XWZ4339
	2	5.1CH INPUT ASSY	XWZ4341
	2	BIND ASSY	XWZ4344
	1	MAIN ASSY	XWK3359
	1	FRONT IN ASSY	XWK3366
	1	FM/AM TUNER UNIT	AXX7170

4. BLOCK BIAGRAM

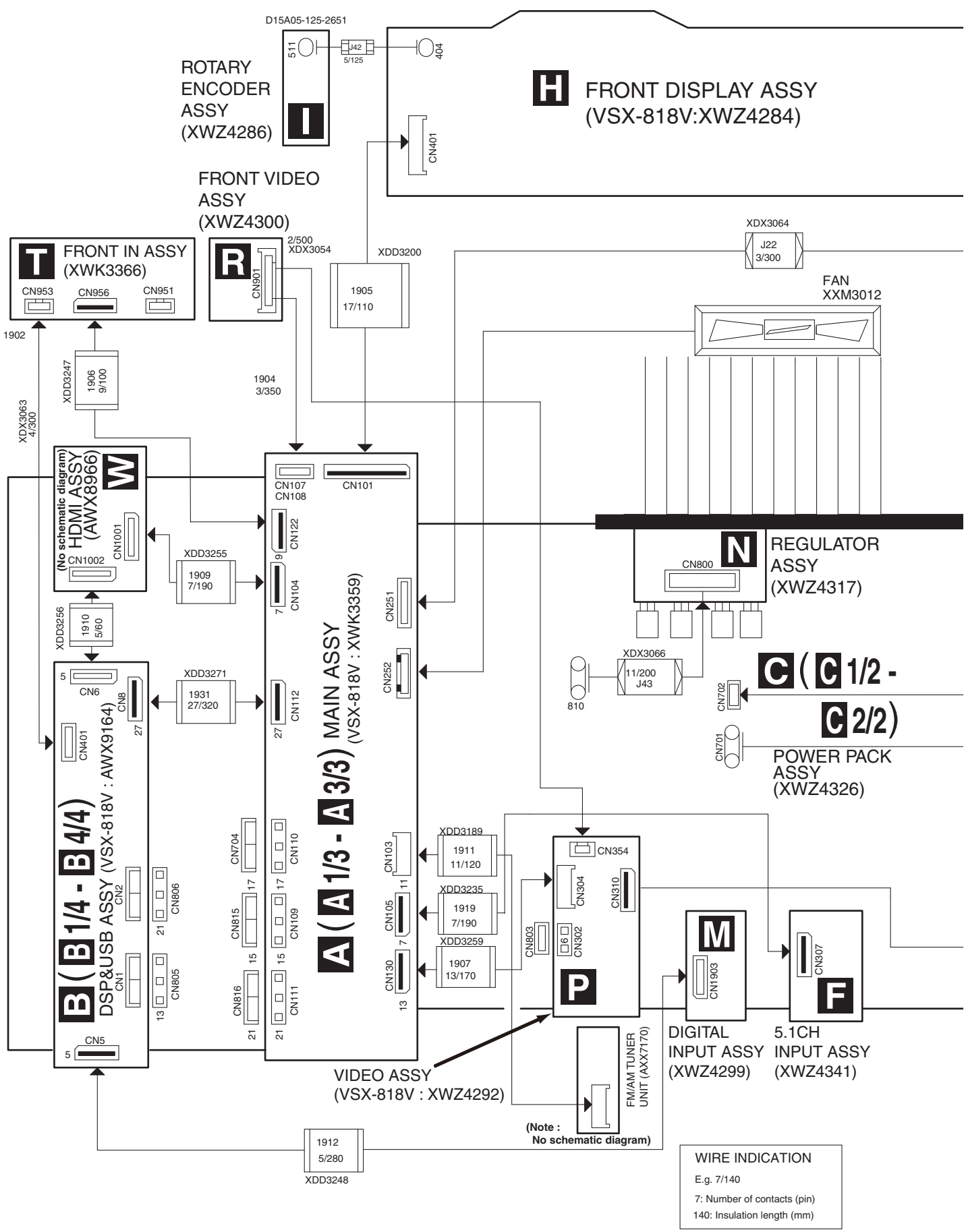
4.1 OVERALL WIRING CONNECTION DIAGRAM (VSX-918V)

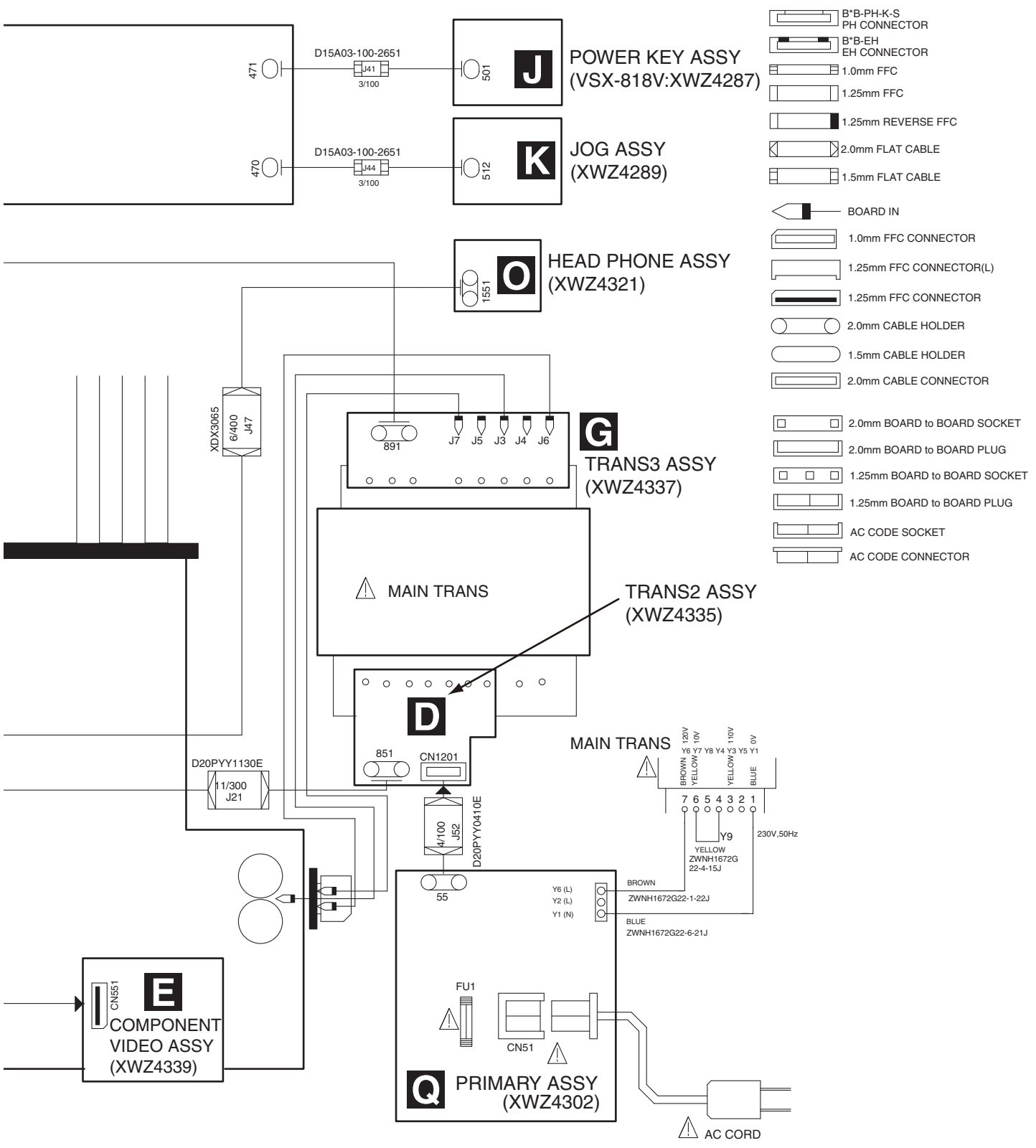




- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.

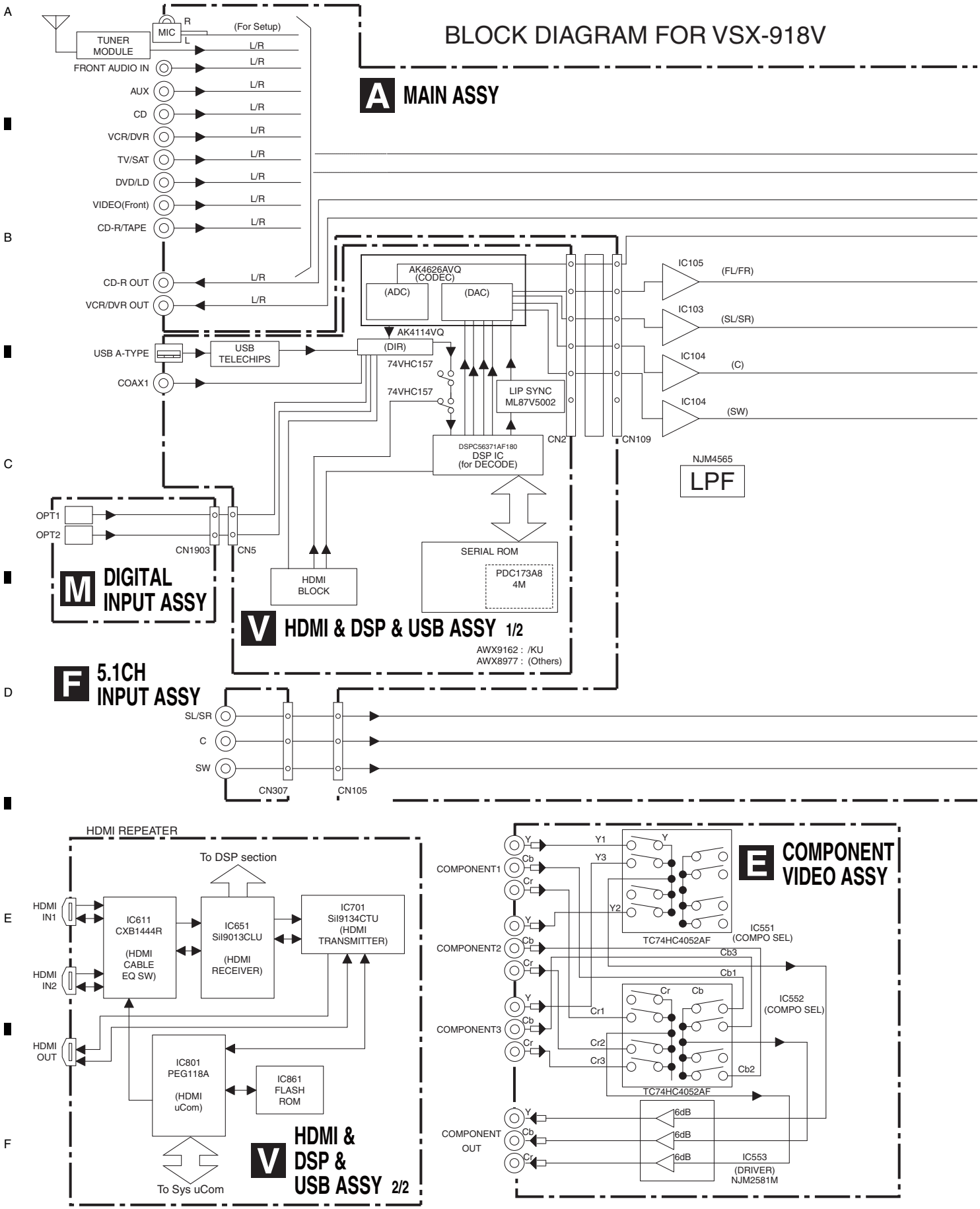
4.2 OVERALL WIRING CONNECTION DIAGRAM (VSX-818V)

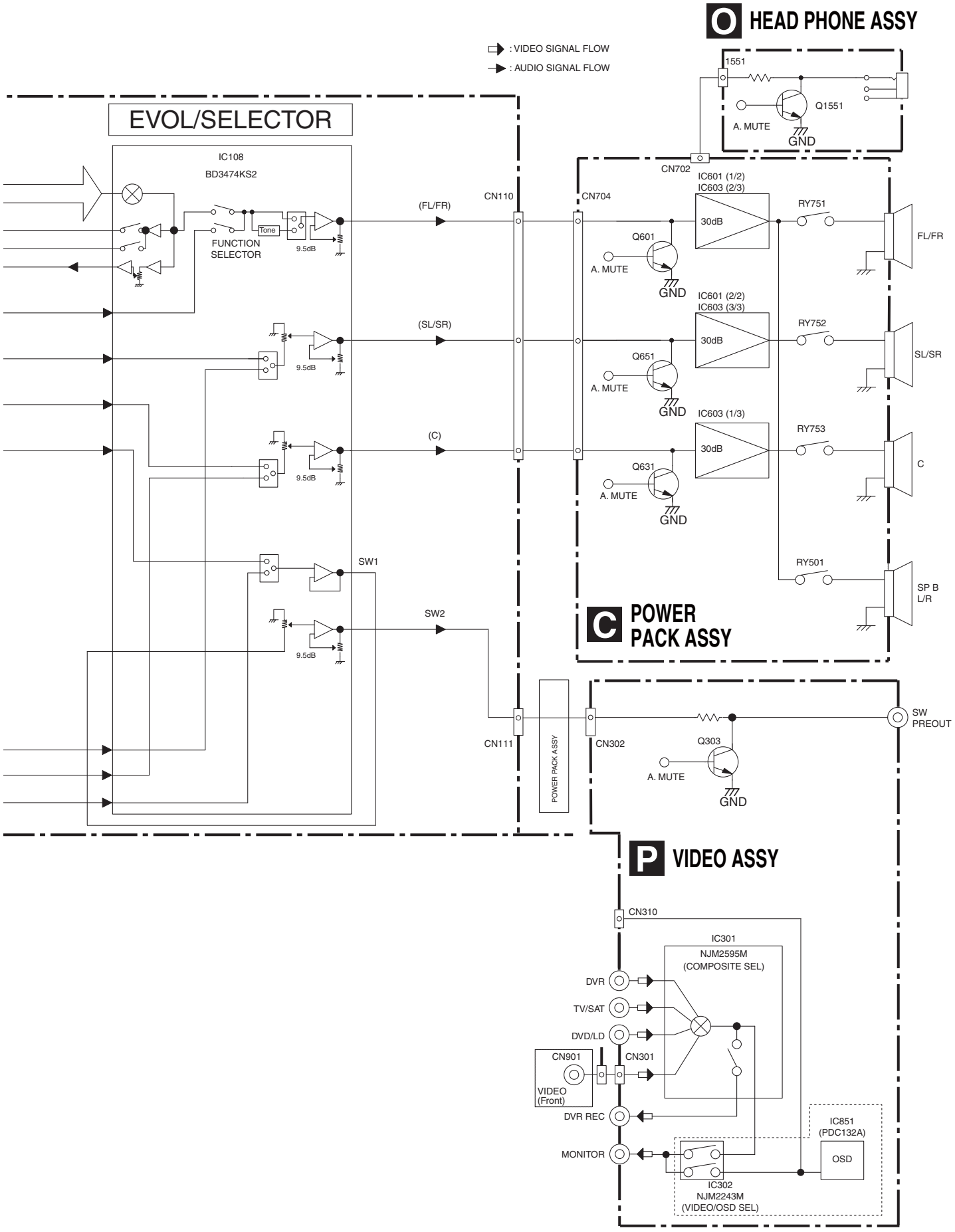




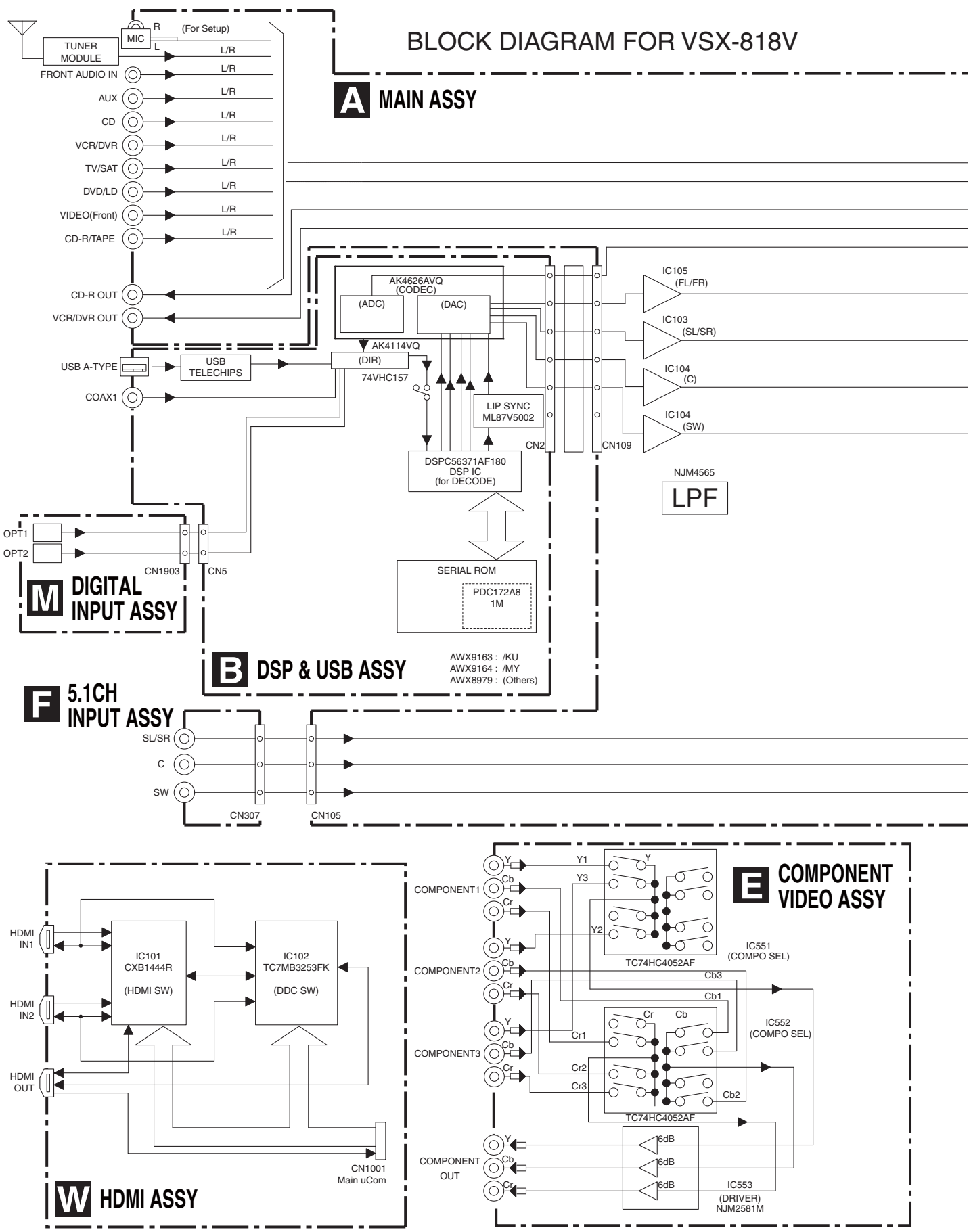
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.

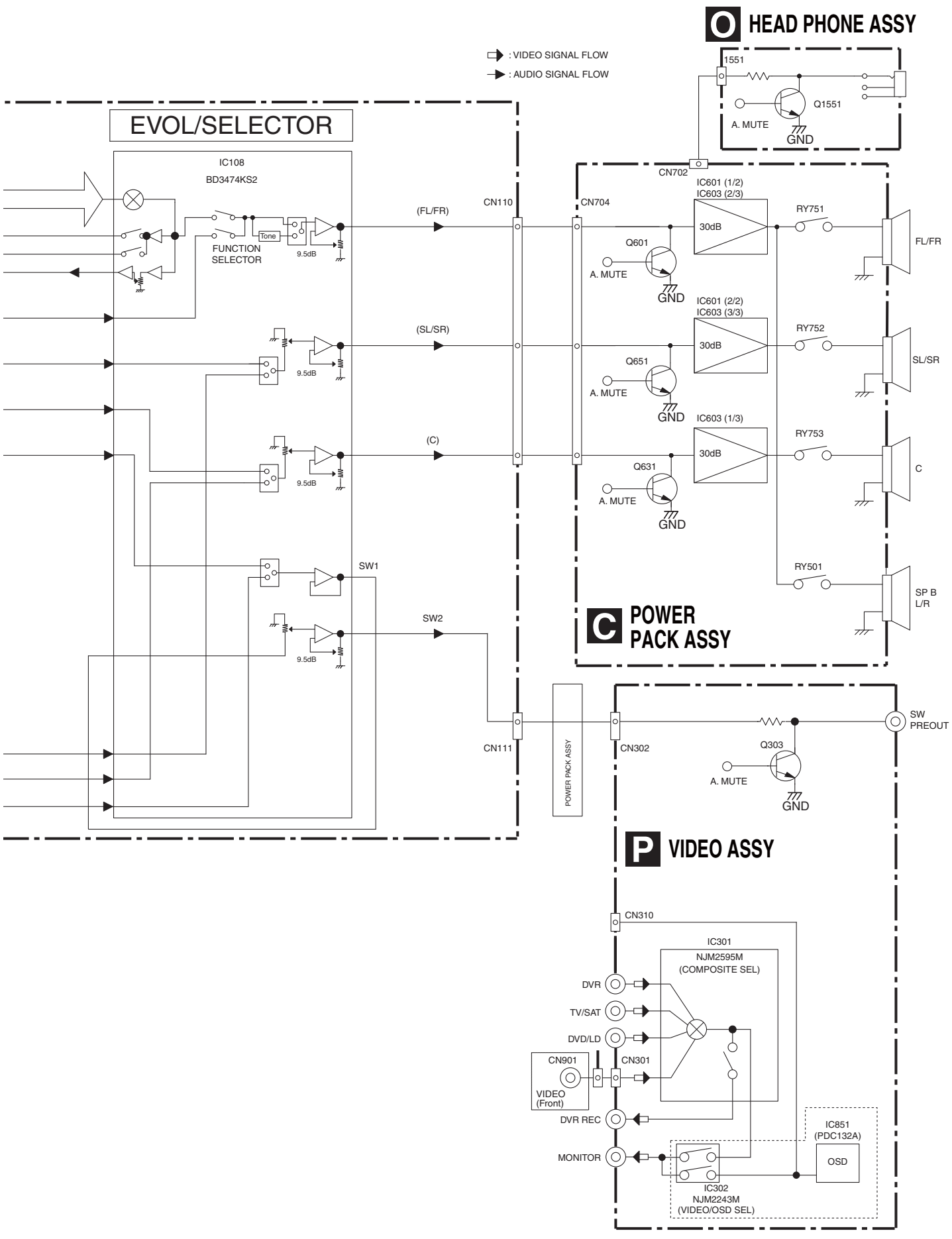
4.3 BLOCK DIAGRAM (VSX-918V)




O HEAD PHONE ASSY
: VIDEO SIGNAL FLOW
: AUDIO SIGNAL FLOW
EVOL/SELECTOR
IC108
BD3474KS2
FUNCTION SELECTOR
Tone
9.5dB
(FL/FR)
(SL/SR)
(C)
SW1
SW2
CN110
CN111
CN704
CN702
1551
Q1551
A. MUTE
GND
IC601 (1/2)
IC603 (2/3)
IC601 (2/2)
IC603 (3/3)
IC603 (1/3)
30dB
Q601
Q651
Q631
RY751
RY752
RY753
RY501
FL/FR
SL/SR
C
SP B L/R
C POWER PACK ASSY
POWER PACK ASSY
CN302
Q303
SW PREOUT
P VIDEO ASSY
CN310
IC301
NJM2595M
(COMPOSITE SEL)
DVR
TV/SAT
DVD/LD
CN901
CN301
VIDEO (Front)
DVR REC
MONITOR
IC851
(PDC132A)
OSD
IC302
NJM2243M
(VIDEO/OSD SEL)

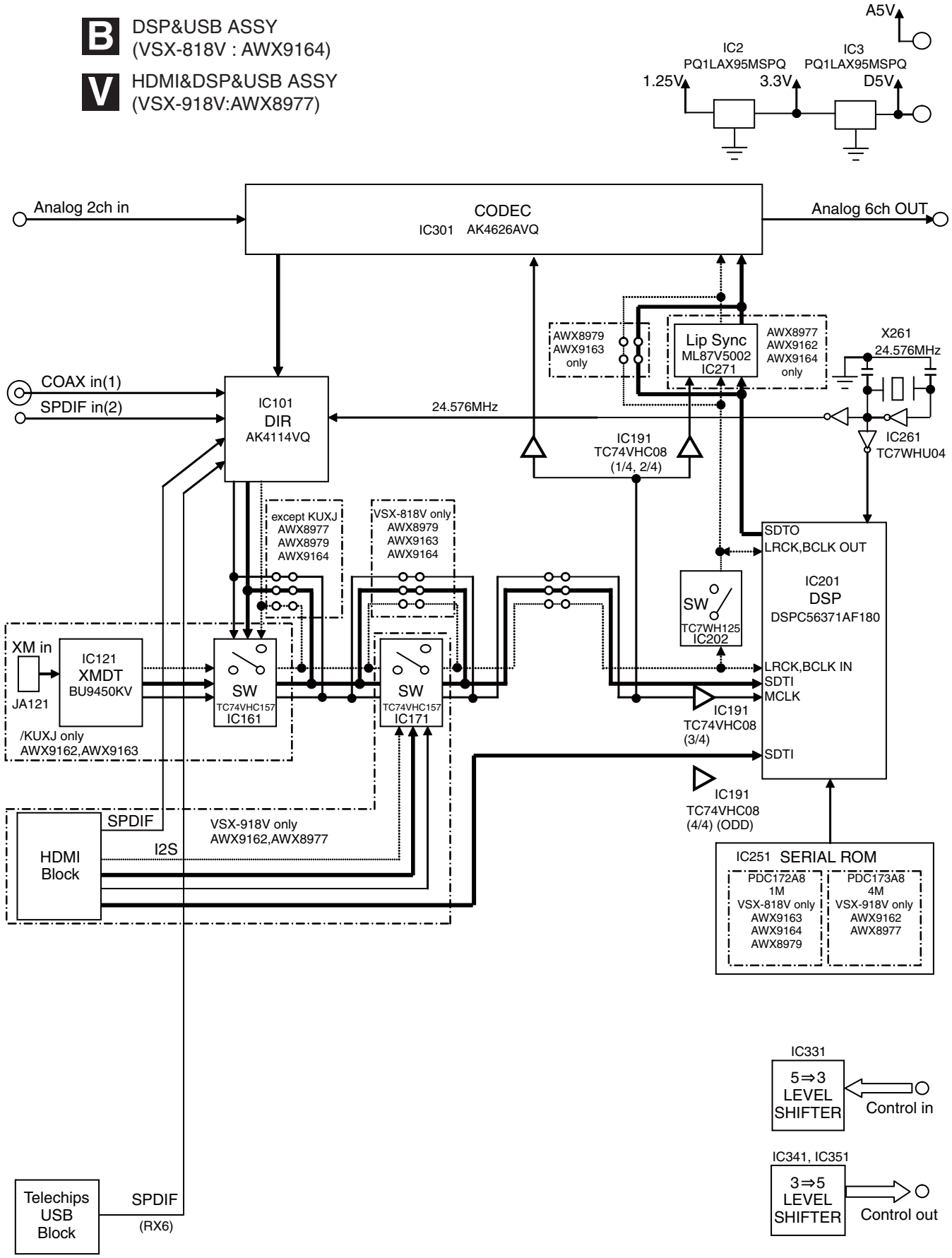
4.4 BLOCK DIAGRAM (VSX-818V)




O HEAD PHONE ASSY
: VIDEO SIGNAL FLOW
: AUDIO SIGNAL FLOW
1551
Q1551
A. MUTE
GND
EVOL/SELECTOR
IC108
BD3474KS2
FUNCTION SELECTOR
Tone
9.5dB
(FL/FR)
(SL/SR)
(C)
SW1
SW2
CN110
CN111
CN702
CN704
IC601 (1/2)
IC603 (2/3)
IC601 (2/2)
IC603 (3/3)
IC603 (1/3)
30dB
Q601
Q651
Q631
RY751
RY752
RY753
RY501
FL/FR
SL/SR
C
SP B L/R
C POWER PACK ASSY
POWER PACK ASSY
CN302
Q303
SW PREOUT
P VIDEO ASSY
CN310
IC301
NJM2595M
(COMPOSITE SEL)
DVR
TV/SAT
DVD/LD
CN901
CN301
VIDEO (Front)
DVR REC
MONITOR
IC851
(PDC132A)
OSD
IC302
NJM2243M
(VIDEO/OSD SEL)

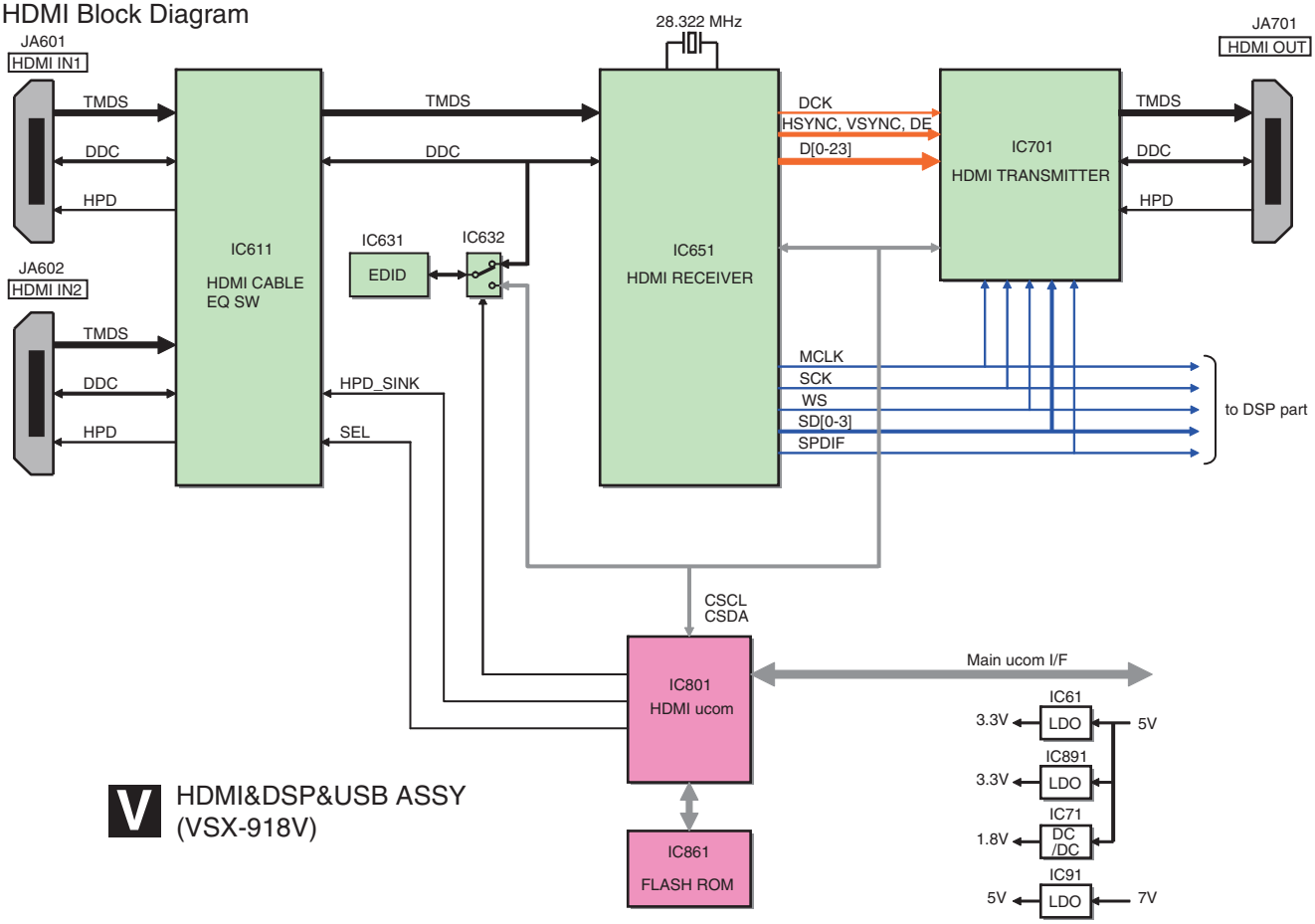
4.5 DSP BLOCK DIAGRAM

Block Diagram (DSP portion)



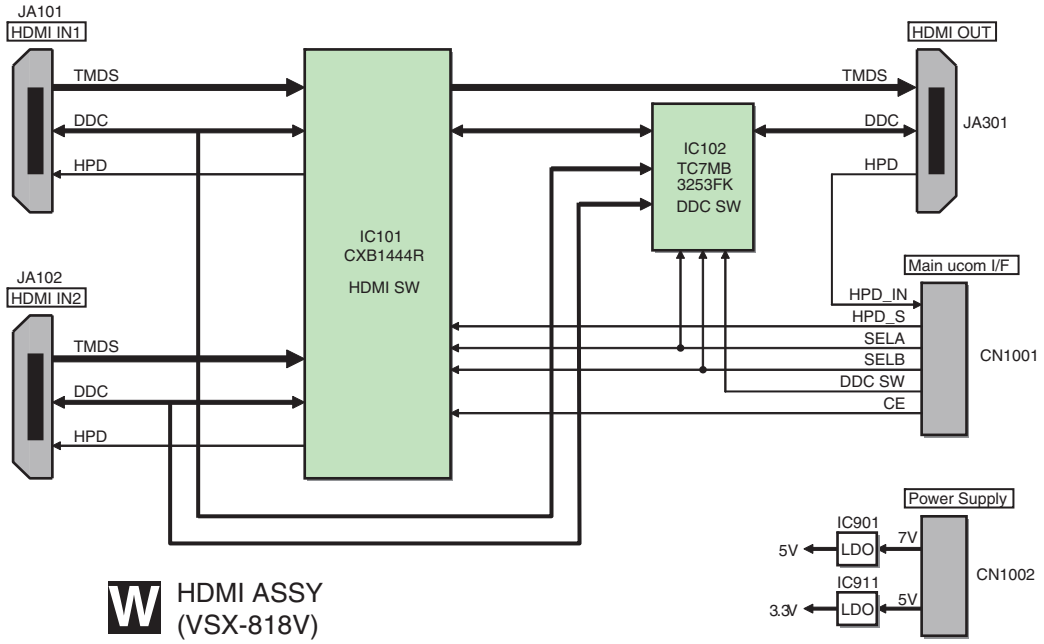
4.6 HDMI BLOCK DIAGRAM

VSX-918V HDMI&DSP&USB ASSY
HDMI Block Diagram



V HDMI&DSP&USB ASSY
(VSX-918V)

VSX-818V HDMI ASSY(Pass through SW) Block Diagram



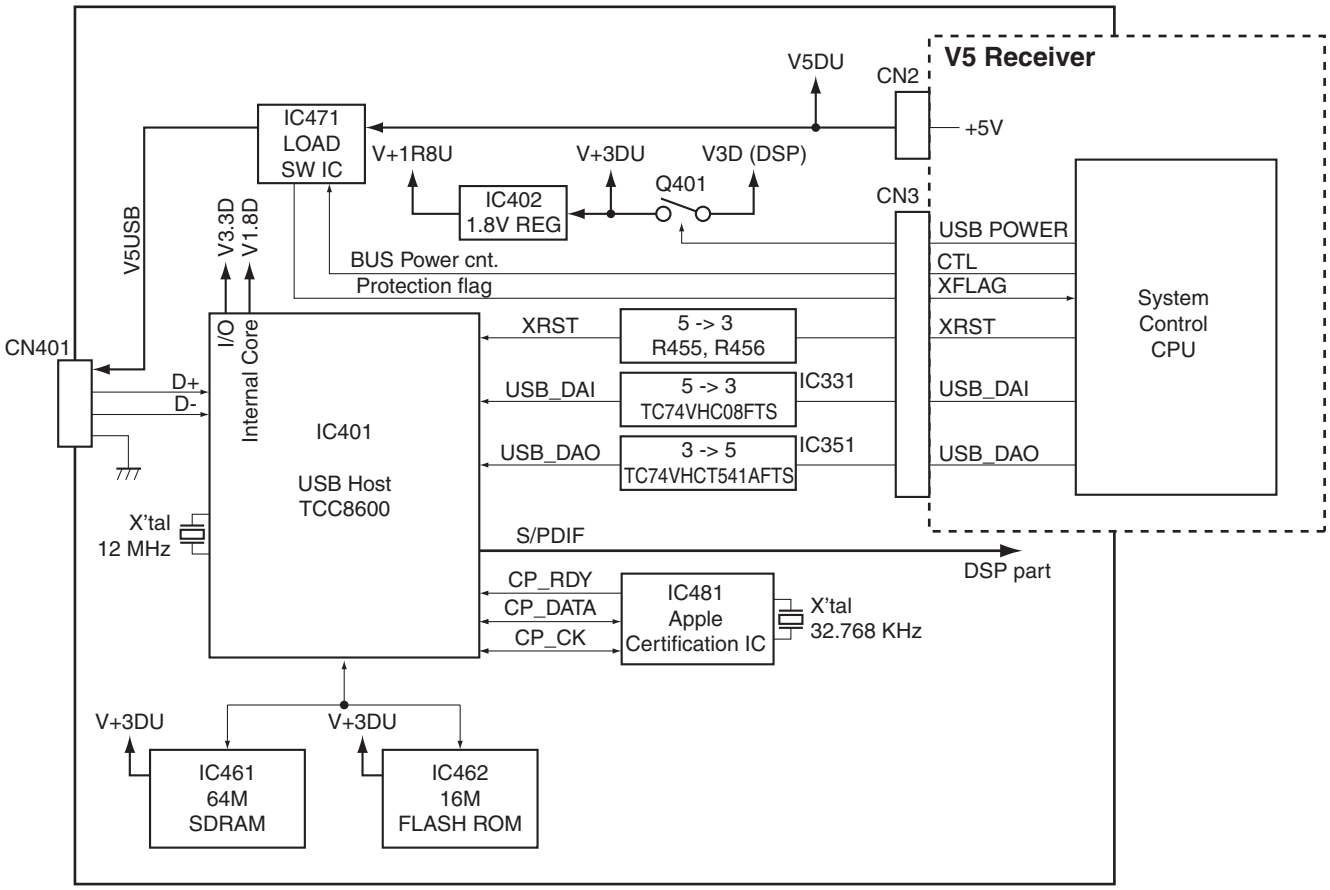
W HDMI ASSY
(VSX-818V)

4.7 USB BLOCK DIAGRAM

Block Diagram (USB portion)

B DSP&USB ASSY
(VSX-818V : AWX9164)

V HDMI&DSP&USB ASSY
(VSX-918V:AWX8977)



5. DIAGNOSIS

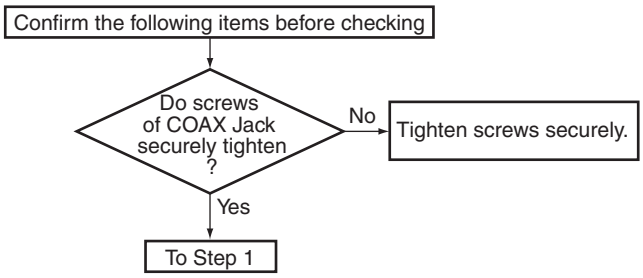
5.1 DIAGNOSIS FLOWCHART

[1] DSP TROUBLESHOOTING

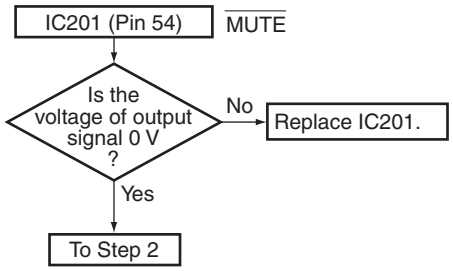
■ Troubleshooting for all destination

- When a sound is not out in the multi-CH signal playback mode or surround mode with the COAX, OPT, USB or HDMI input. (SurroundBack is not output by setting.)
- Suppose CR to be normal contact and that is not damaged.
- This shows failure analysis of DSP Block.

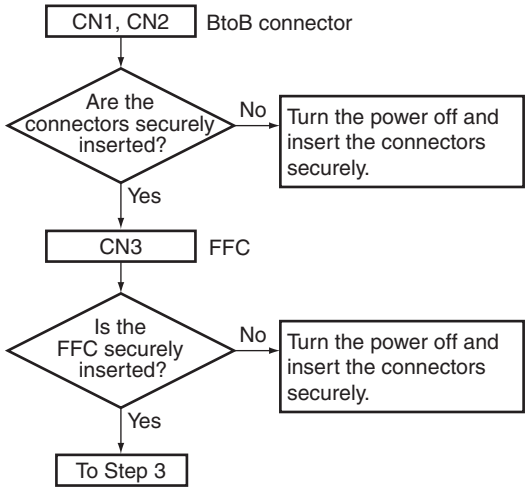
Step 0: Preliminary confirmation



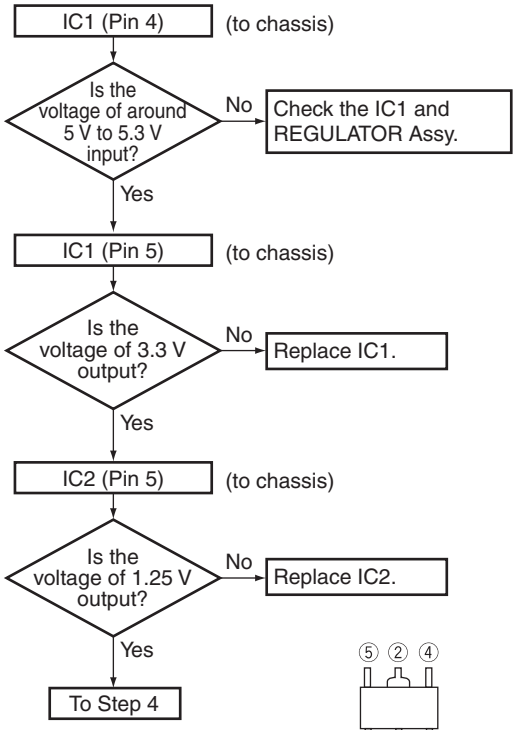
Step 1: MUTE pin

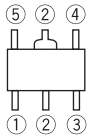


Step 2: BtoB connector and FFC



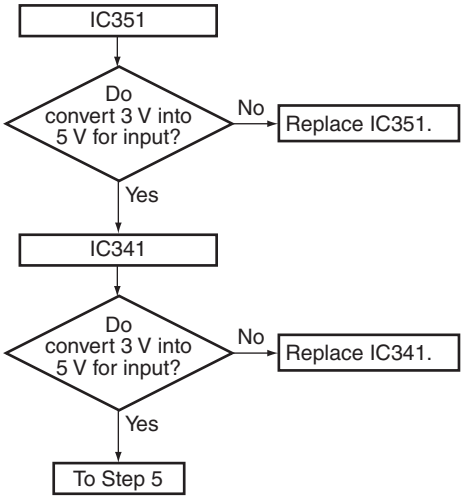
Step 3: Regulator IC



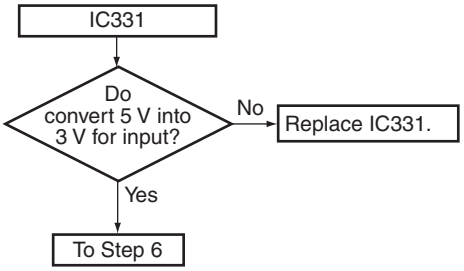


Part shape and Pin arrangement of IC1 and IC2

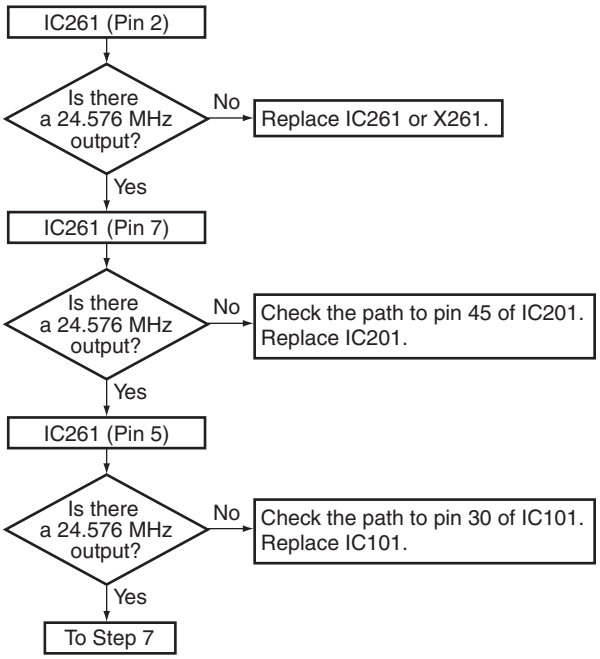
Step 4: 3 V to 5 V conversion



Step 5: 5 V to 3 V conversion



Step 6: X'tal

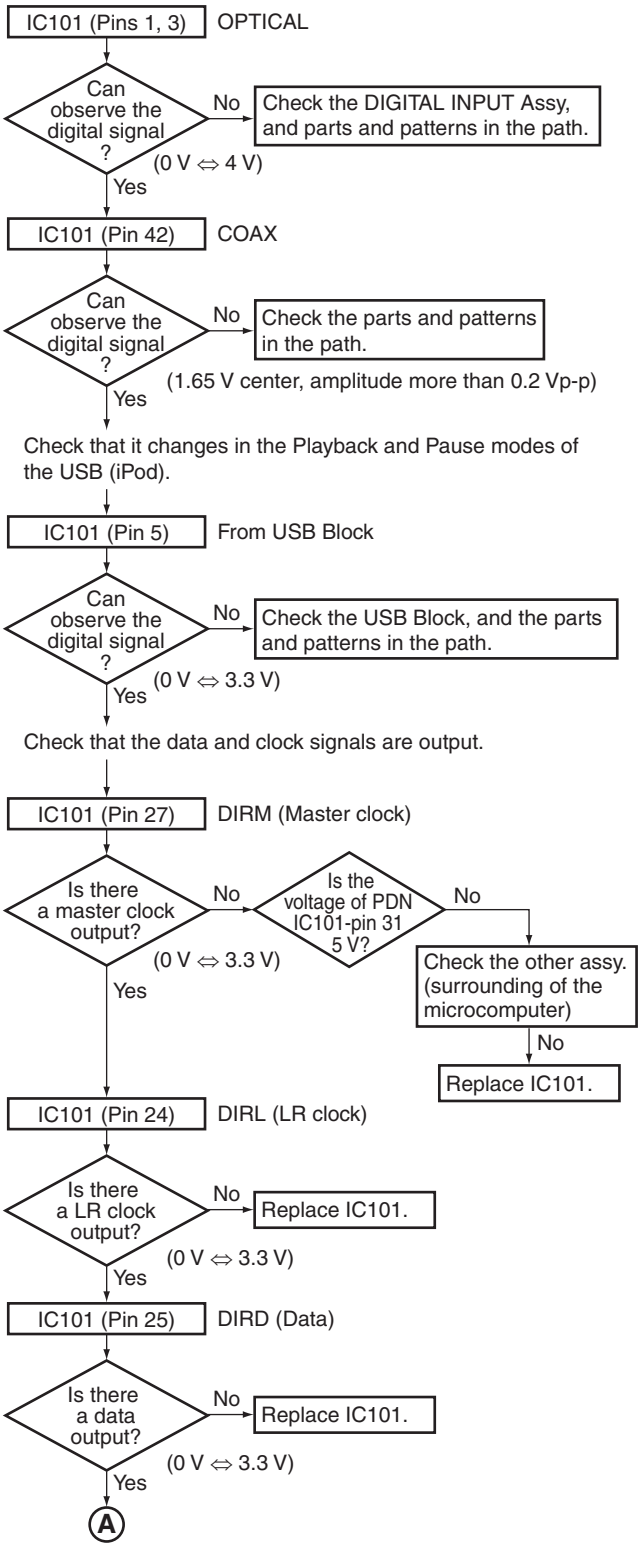


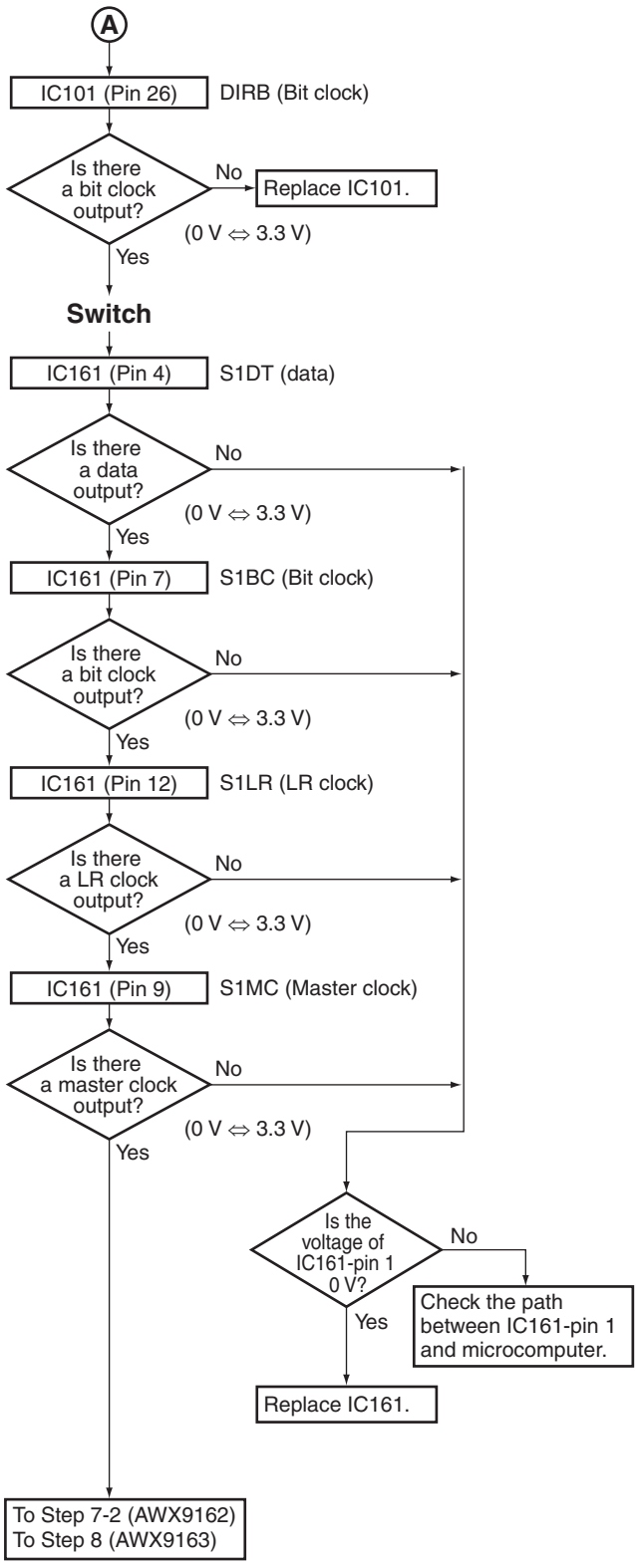
Step 7

When the COAX, OPT or USB is input, go to Step 7-1.
When the HDMI is input, go to Step 7-2.

Step 7-1: DIR

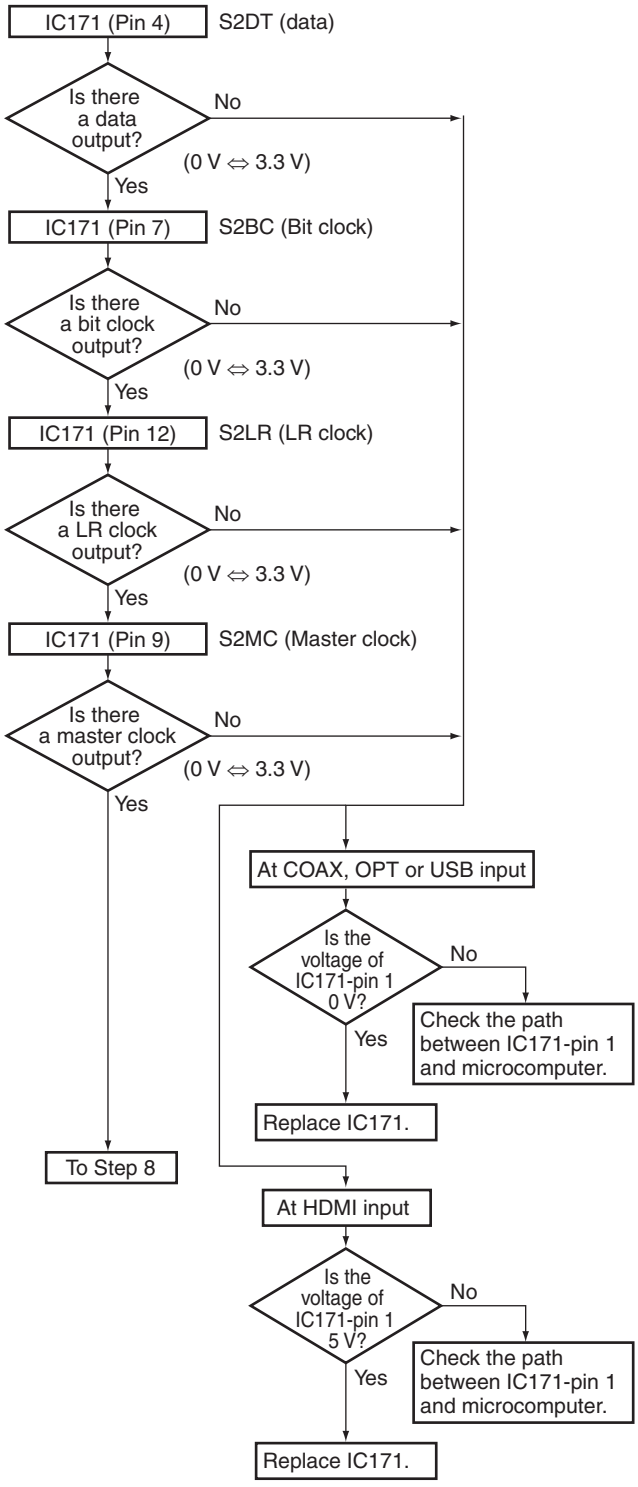
Check that the S/PDIF signal is output.
Check that changes by pulling out and inserting the digital input lines.





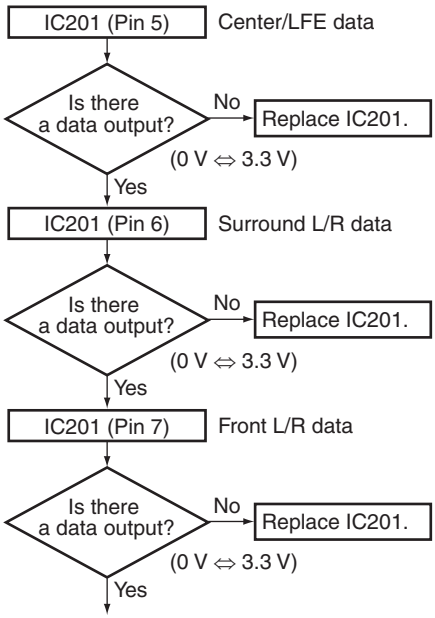
Step 7-2 (AWX9162 only)

Check that the data and clock signals are output.

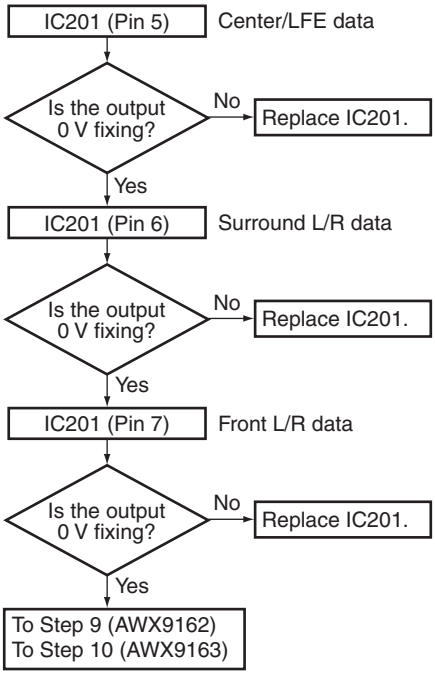


Step 8: DSP output (digital)

Digital output of each CH when inputting the digital signal with audio.

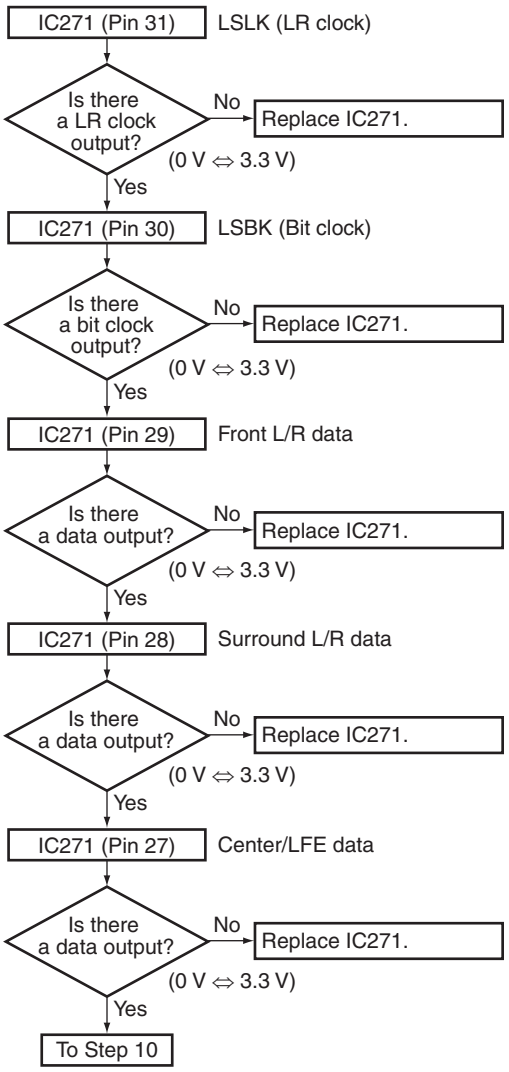


Digital output of each CH when inputting the digital signal (-∞ dB (no audio)).



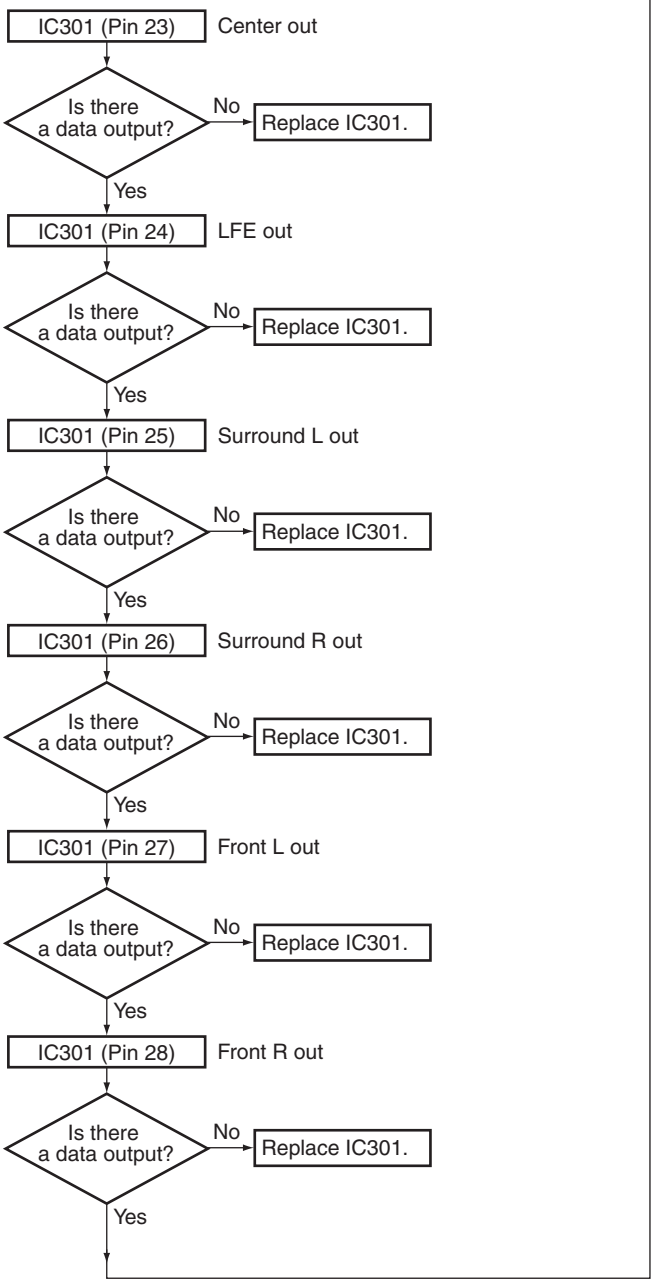
Step 9: LIPSYNC output (Digital) (AWX9162 only)

Check that the data and clock signals are output.

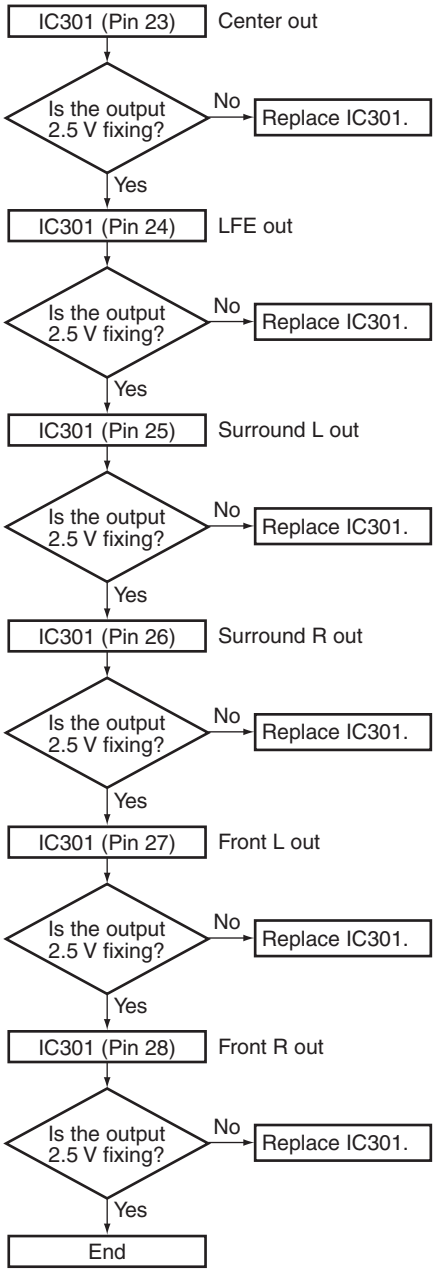


Step 10: Codec output (analog)

Analog output of each CH when inputting the digital signal with audio.



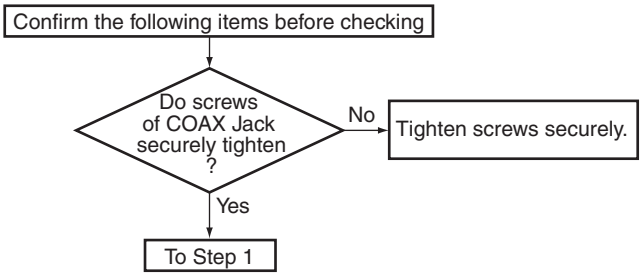
Analog output of each CH when inputting the digital signal (-∞ dB (no audio)).



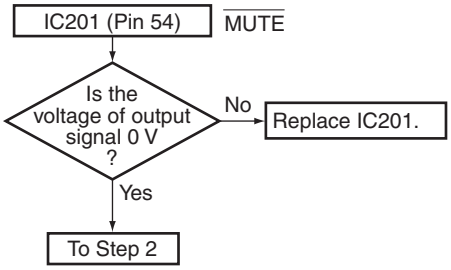
■ Troubleshooting in the MCACC mode

- When the MCACC mode is turned on (SurroundBack is not output by setting.)
- Suppose CR to be normal contact and that is not damaged.
- This shows failure analysis of DSP Block.

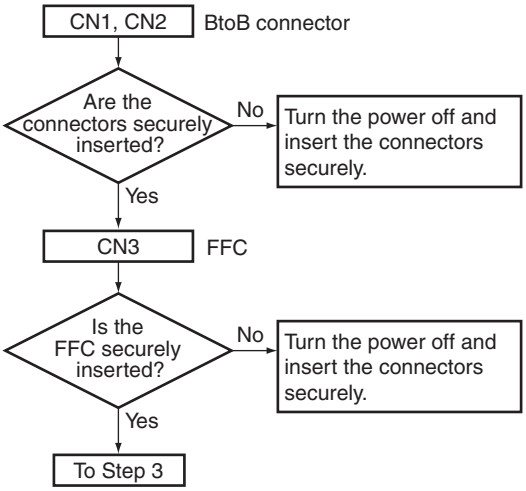
Step 0: Preliminary confirmation



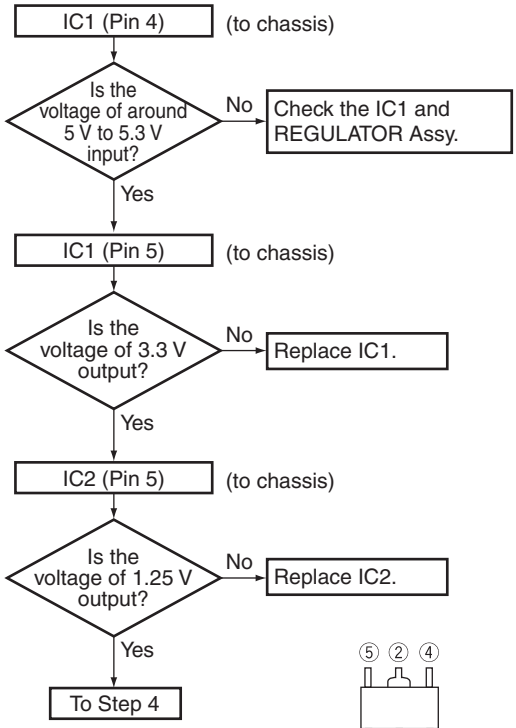
Step 1: MUTE pin



Step 2: BtoB connector and FFC

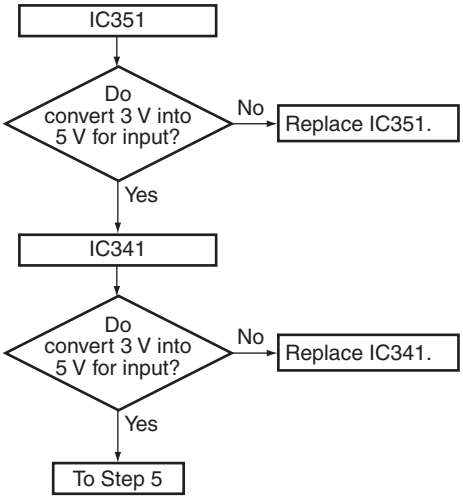


Step 3: Regulator IC

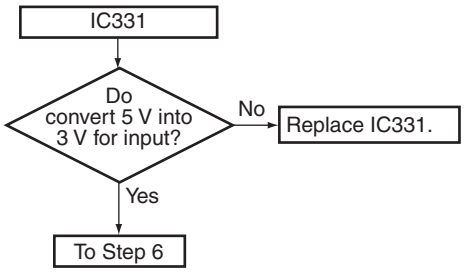


Part shape and Pin arrangement of IC1 and IC2

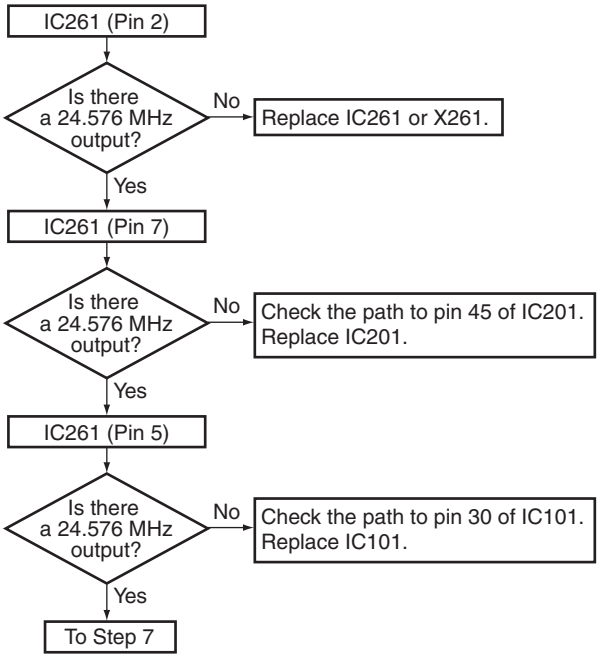
Step 4: 3 V to 5 V conversion



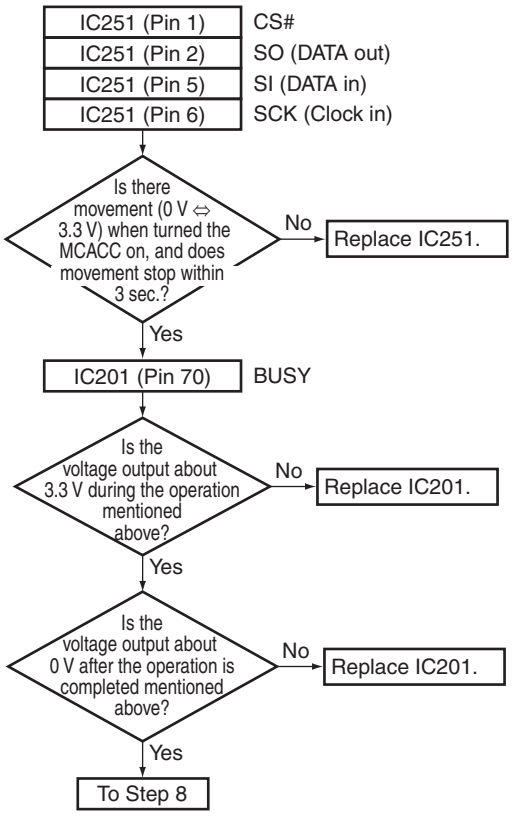
Step 5: 5 V to 3 V conversion



Step 6: X'tal

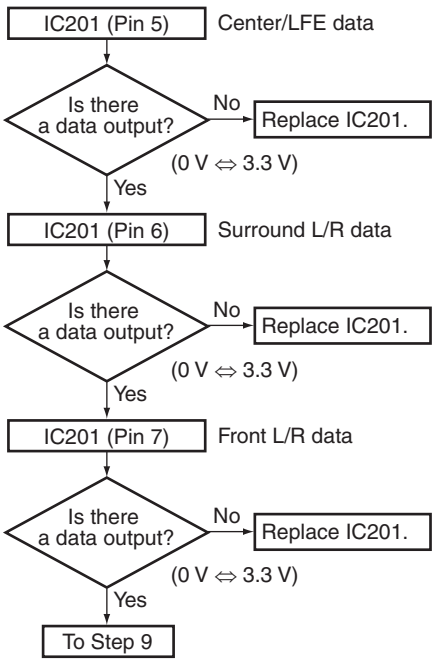


Step 7: ROM


IC251 (Pin 1) CS#
IC251 (Pin 2) SO (DATA out)
IC251 (Pin 5) SI (DATA in)
IC251 (Pin 6) SCK (Clock in)
Is there movement (0 V ⇔ 3.3 V) when turned the MCACC on, and does movement stop within 3 sec.?
No
Replace IC251.
Yes
IC201 (Pin 70) BUSY
Is the voltage output about 3.3 V during the operation mentioned above?
No
Replace IC201.
Yes
Is the voltage output about 0 V after the operation is completed mentioned above?
No
Replace IC201.
Yes
To Step 8

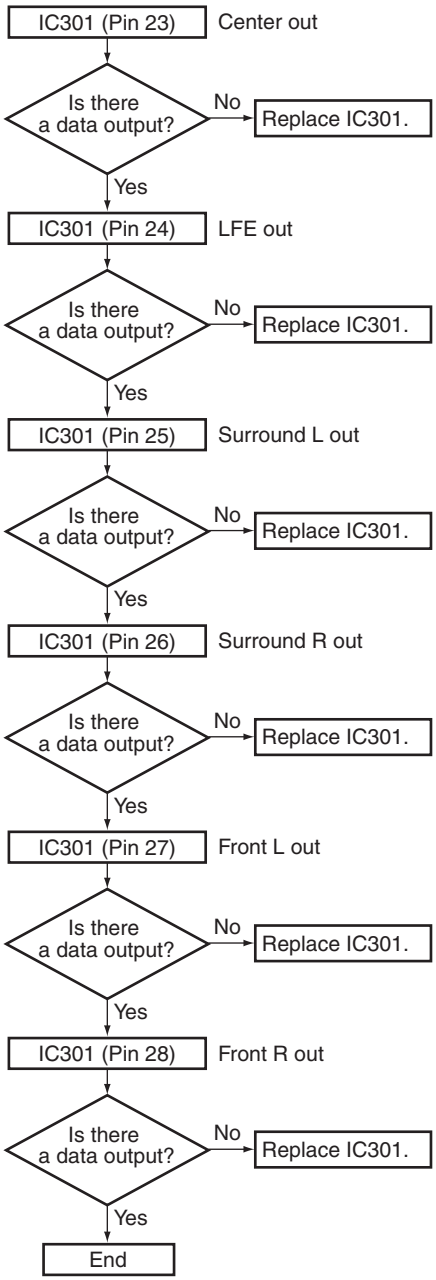
Step 8: DSP output (digital)

Digital output when indicated each CH.



Step 9: CODEC output (analog)

Analog output when indicated each CH.



[2] USB TROUBLESHOOTING

■ Description of Error Indications

FL Display	Error Content	Possible causes and actions to be taken
USB ERROR1	Detection of overcurrent to a USB device	Overcurrent (500 mA or more) is consumed at the connected USB device. • Some USB devices, such as a portable HDD, need more current than that this unit supplies. (Use the AC adaptor for the connected USB device.) • The USB power is short-circuited.
USB ERROR2	Detection of a medium not supported	A USB device that this unit does not support (other than the Mass Storage Class) is connected (such as a mouse, printer, or digital camera). • Connect a mass storage class USB device.
USB ERROR3	Communication error with the system microcomputer	Communication between TCC8600-00X-EA-UG (IC401) and PEG467/469A (IC9001) failed. • Defective connection (connectors) inside this unit • See STEP 3 of Troubleshooting.

If a USB ERR message lights in the display, try following the points below:
- Switch the receiver off, then on again.
- Reconnect the USB device with the receiver switched off.
- Select another input source (like DVD/BD), then switch back to USB.
- Use a dedicated AC adapter (supplied with the device) for USB power.

If this doesn't remedy the problem, it is likely your USB device is incompatible.

■ Operations when overcurrent to a USB device is detected

(1) Overcurrent to a USB device is detected at the port for the microcomputer.

(2) The power supply to the USB device is stopped.

(3) Control of 5 V power is disabled at the port for the microcomputer.

(4) Change of indications on the FL display

Flashes for 2 sec.

U S B E R R 1

⇩ Lights up after flashing for 2 sec.

U S B E R R 1

(5) To supply power to the USB module again:

- Turn the power to the unit off then back on.
- Set the function setting to anything other than USB then back to USB.
- Press the USB play key on the remote control unit.

(6) After overcurrent is detected, if the USB play key is pressed while the error indication is displayed, power supply to the USB module is restored. If overcurrent is no longer detected, the indications shown below are displayed (normal indication):

U S B

In this state, flashing of "USB ERROR1" stops, but playback will not start. To start playback, press the USB play key again.

In the above case, if overcurrent is detected again, the above procedures 1 through 4 are repeated.

■ In a case where a medium not supported is connected

(1) Change of indications on the FL displays

Flashes for 2 sec.

U S B E R R 2

⇩ Lights up after flashing for 2 sec.

U S B E R R 2

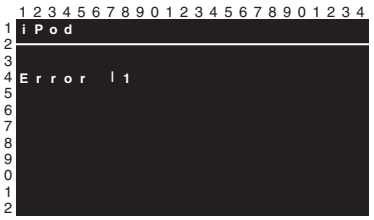
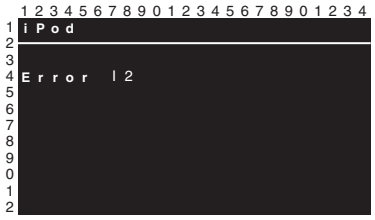
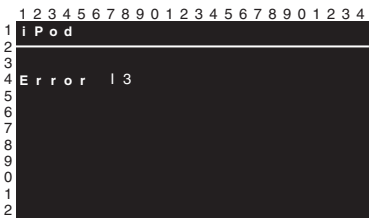
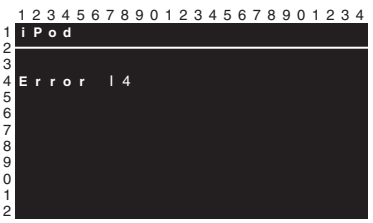
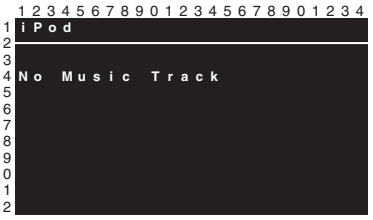
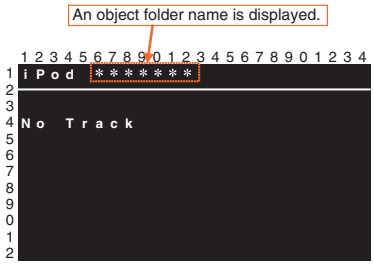
If overcurrent is detected before detection of a non-supported medium, the error indication "USB ERROR1" remains, as the power supply to the USB module is stopped.

On supported media

The formats of supported media that can be played back on this unit are MP3, WMA, and AAC.
Some media in MPEG4 can also be played back. As AAC derives from MPEG4 codec, playback of media in AAC codec of MPEG4 is possible.

iPod Error Message

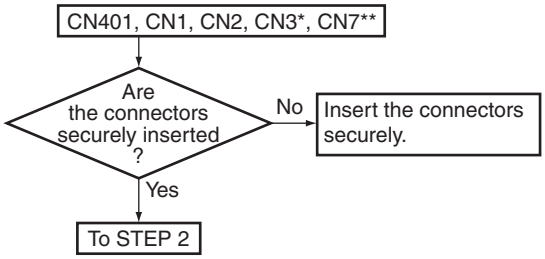
When the abnormality occurred, the error messages are indicated.

key sequence change	OSD display	FL display
Error I1 Communication Error When the communication is not possible normally. [Procedure] Disconnect a connector once, then connect a connector surely again after the main menu of the iPod was displayed. Nevertheless, reset the iPod when the iPod does not operate normally.		(8-digit) ERROR I1
Error I2 Protocol Ver.Error (in the Type 2 operation only) When a version of the iPod software is old. [Procedure] Update the iPod software to the newest version.		(8-digit) ERROR I2
Error I3 Generation Error (in the Type 1 operation only) When the non-support model for the iPod Mode Type 1 was connected. When the non-support function will be executed. When a version of the iPod software is old. [Procedure] Change the iPod Mode to Type2. Update the iPod software to the newest version.		(8-digit) ERROR I3
Error I4 Loading Error When there is no response from the iPod. [Procedure] The power is shut off once, then the unit back on. Reset the iPod. Update the iPod software to the newest version.		(8-digit) ERROR I4
No Music Track No Music Track Cautuion When a music track does not exist in the connected iPod. [Procedure] Transfer a music track to the iPod. When play a video track, turn on the iPod CTRL, and playback a track by operating the main unit of the iPod.		(8-digit) NO MUSIC
No Track No Music Track Cautuion When a track does not exist in the selected category [Procedure] Select another category.		(8-digit) NO TRACK

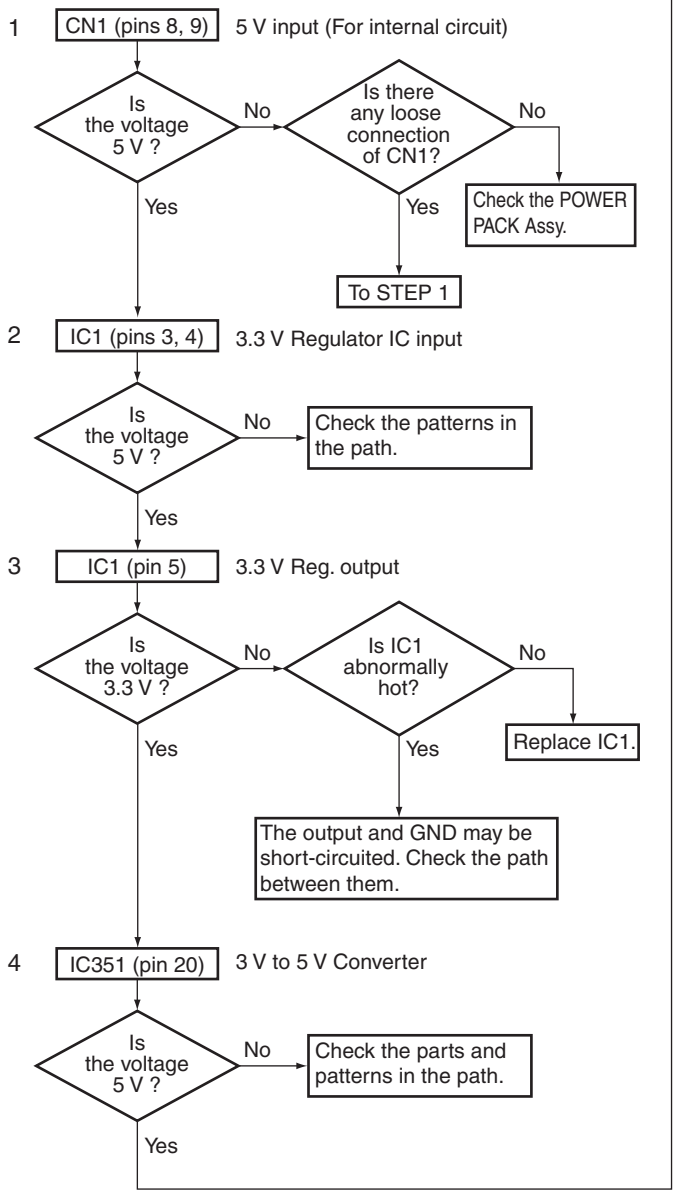
USB Troubleshooting

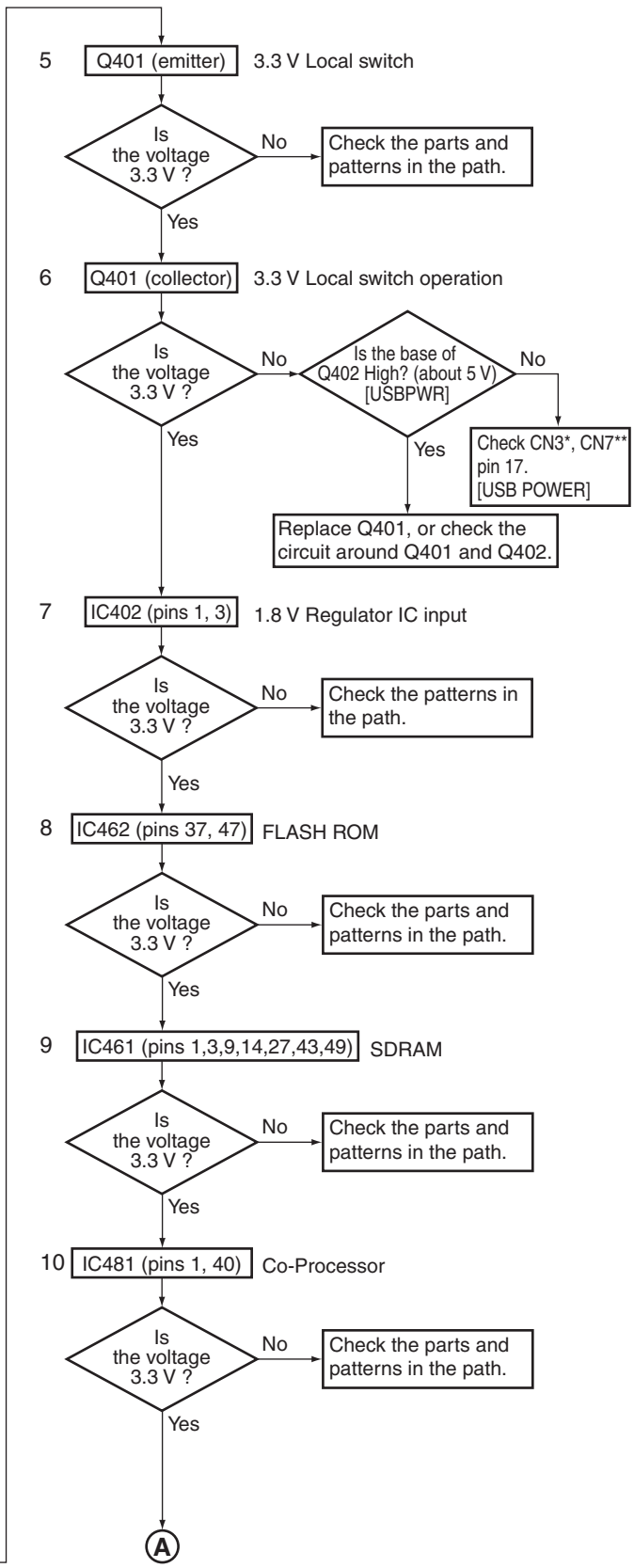
* VSX-918V (AWX8977)
** VSX-818V (AWX9164)

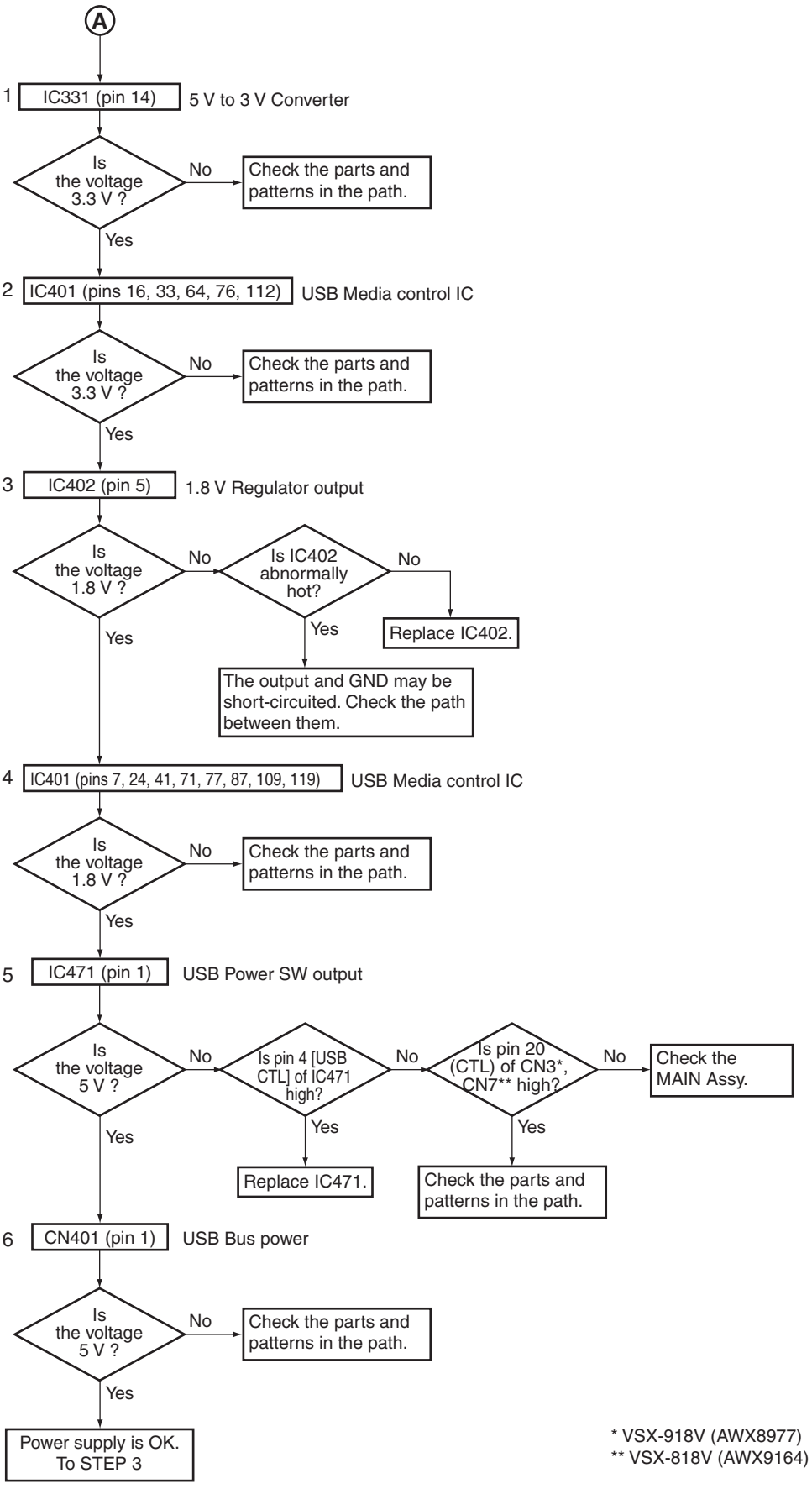
Step 1: Connectors



Step 2: Power supply


1 CN1 (pins 8, 9) 5 V input (For internal circuit)
Is the voltage 5 V ?
No
Is there any loose connection of CN1?
No
Check the POWER PACK Assy.
Yes
To STEP 1
Yes
2 IC1 (pins 3, 4) 3.3 V Regulator IC input
Is the voltage 5 V ?
No
Check the patterns in the path.
Yes
3 IC1 (pin 5) 3.3 V Reg. output
Is the voltage 3.3 V ?
No
Is IC1 abnormally hot?
No
Replace IC1.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
4 IC351 (pin 20) 3 V to 5 V Converter
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes


5 Q401 (emitter) 3.3 V Local switch
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
6 Q401 (collector) 3.3 V Local switch operation
Is the voltage 3.3 V ?
No
Is the base of Q402 High? (about 5 V) [USBPWR]
No
Check CN3*, CN7** pin 17. [USB POWER]
Yes
Yes
Replace Q401, or check the circuit around Q401 and Q402.
7 IC402 (pins 1, 3) 1.8 V Regulator IC input
Is the voltage 3.3 V ?
No
Check the patterns in the path.
Yes
8 IC462 (pins 37, 47) FLASH ROM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
9 IC461 (pins 1,3,9,14,27,43,49) SDRAM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
10 IC481 (pins 1, 40) Co-Processor
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
A

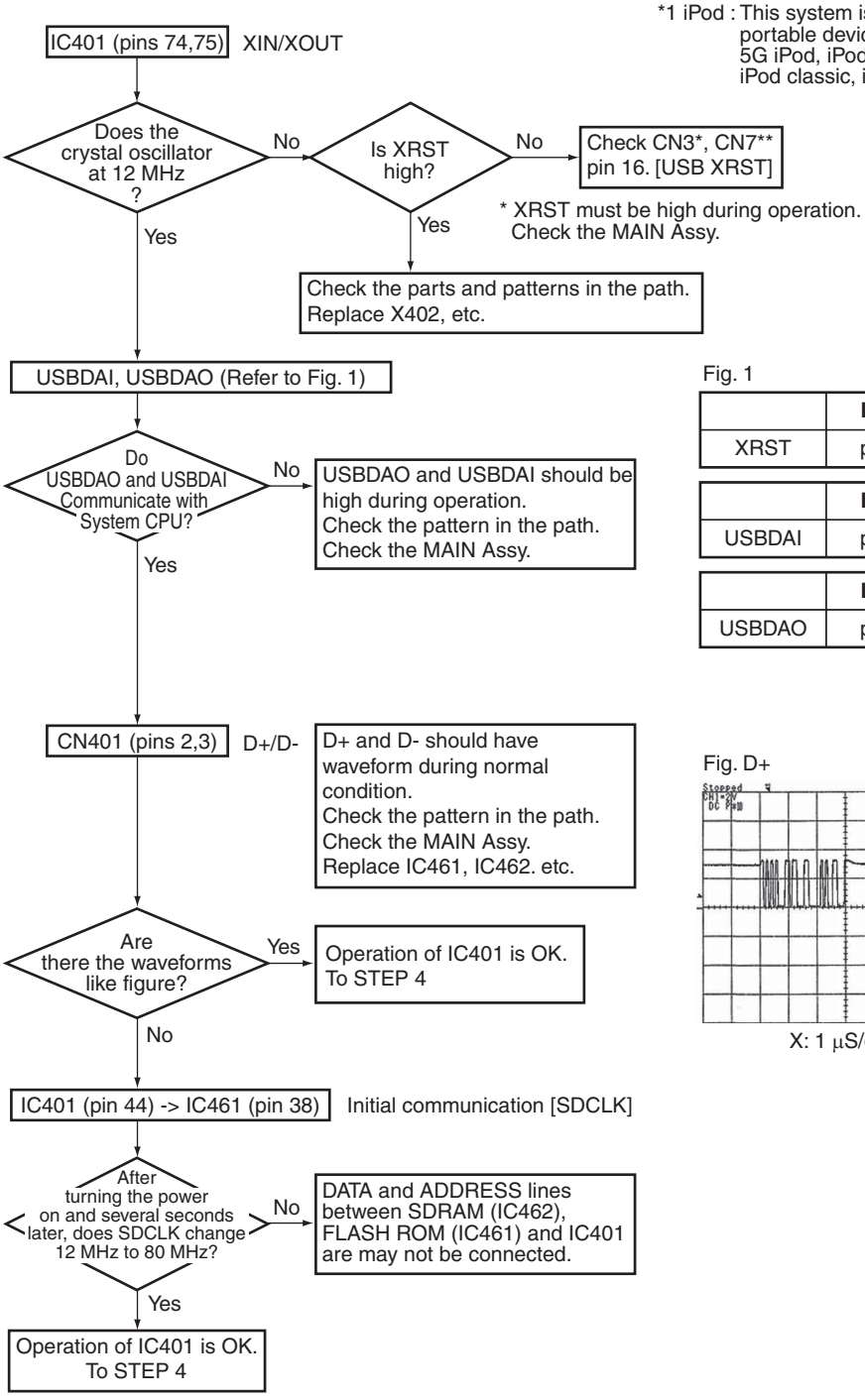

A
11 IC331 (pin 14) 5 V to 3 V Converter
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
12 IC401 (pins 16, 33, 64, 76, 112) USB Media control IC
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
13 IC402 (pin 5) 1.8 V Regulator output
Is the voltage 1.8 V ?
No
Is IC402 abnormally hot?
No
Yes
Replace IC402.
Yes
The output and GND may be short-circuited. Check the path between them.
14 IC401 (pins 7, 24, 41, 71, 77, 87, 109, 119) USB Media control IC
Is the voltage 1.8 V ?
No
Check the parts and patterns in the path.
Yes
15 IC471 (pin 1) USB Power SW output
Is the voltage 5 V ?
No
Is pin 4 [USB CTL] of IC471 high?
No
Is pin 20 (CTL) of CN3*, CN7** high?
No
Check the MAIN Assy.
Yes
Yes
Yes
Replace IC471.
Check the parts and patterns in the path.
16 CN401 (pin 1) USB Bus power
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
Power supply is OK. To STEP 3

* VSX-918V (AWX8977)
** VSX-818V (AWX9164)

Step 3: Operation of USB Media control IC

Note: Please confirm it with the USB memory*1 connected for the content.

*1 iPod : This system is compatible with the audio of the following portable device in Jan. 2008.
5G iPod, iPod nano, iPod nano 2G, iPod nano 3G, iPod classic, iPod touch


IC401 (pins 74,75) XIN/XOUT
Does the crystal oscillator at 12 MHz ?
No
Is XRST high?
No
Check CN3*, CN7** pin 16. [USB XRST]
Yes
Yes
* XRST must be high during operation. Check the MAIN Assy.
Check the parts and patterns in the path. Replace X402, etc.
USBDAI, USBDAO (Refer to Fig. 1)
Do USBDAO and USBDAI Communicate with System CPU?
No
USBDAO and USBDAI should be high during operation. Check the pattern in the path. Check the MAIN Assy.
Yes
CN401 (pins 2,3) D+/D-
D+ and D- should have waveform during normal condition. Check the pattern in the path. Check the MAIN Assy. Replace IC461, IC462. etc.
Are there the waveforms like figure?
Yes
Operation of IC401 is OK. To STEP 4
No
IC401 (pin 44) -> IC461 (pin 38) Initial communication [SDCLK]
After turning the power on and several seconds later, does SDCLK change 12 MHz to 80 MHz?
No
DATA and ADDRESS lines between SDRAM (IC462), FLASH ROM (IC461) and IC401 are may not be connected.
Yes
Operation of IC401 is OK. To STEP 4

* VSX-918V (AWX8977)
** VSX-818V (AWX9164)

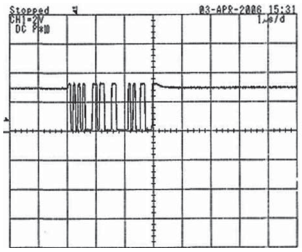
Fig. 1

	IC401			CN3*, CN7**
XRST	pin 77	R455 / R456		pin 16

	IC401	IC331 (5 V -> 3 V)		CN3*, CN7**
USBDAI	pin 96	pin 8	pins 9, 10	pin 18

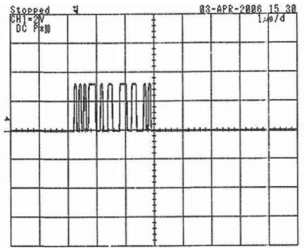
	IC401	IC351 (3 V -> 5 V)		CN3*, CN7**
USBDAO	pin 95	pin 9	pin 11	pin 19

Fig. D+



X: 1 μS/div, Y: 2 V/div

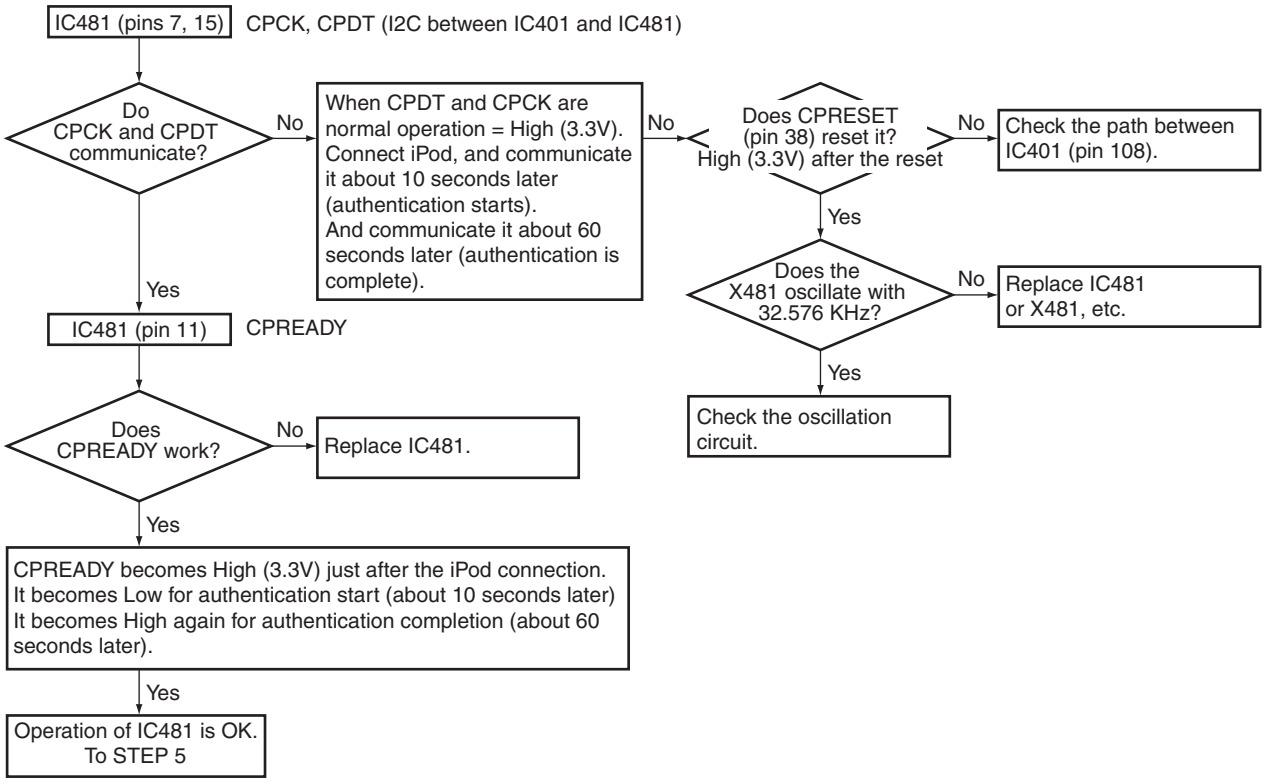
Fig. D-



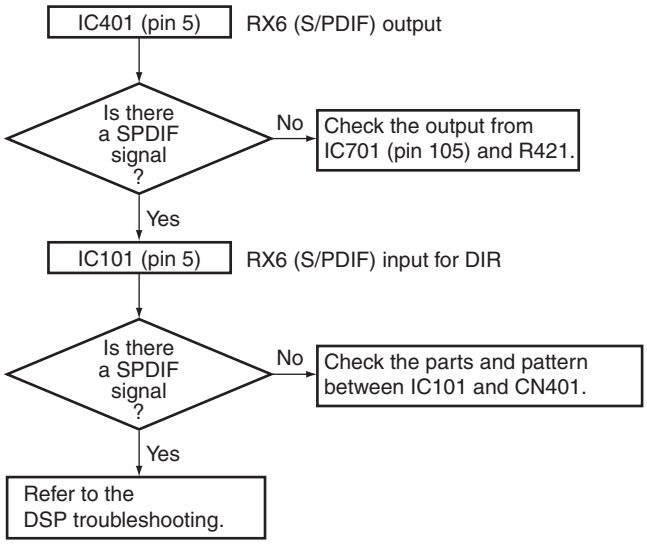
X: 1 μS/div, Y: 2 V/div

Step 4: Operation of iPod (Authentication process)

Note: Please confirm it with connecting the iPod.


IC481 (pins 7, 15)
CPCK, CPDT (I2C between IC401 and IC481)
Do CPCK and CPDT communicate?
No
When CPDT and CPCK are normal operation = High (3.3V). Connect iPod, and communicate it about 10 seconds later (authentication starts). And communicate it about 60 seconds later (authentication is complete).
No
Does CPRESET (pin 38) reset it? High (3.3V) after the reset
No
Check the path between IC401 (pin 108).
Yes
Does the X481 oscillate with 32.576 KHz?
No
Replace IC481 or X481, etc.
Yes
Check the oscillation circuit.
Yes
IC481 (pin 11)
CPREADY
Does CPREADY work?
No
Replace IC481.
Yes
CPREADY becomes High (3.3V) just after the iPod connection.
It becomes Low for authentication start (about 10 seconds later)
It becomes High again for authentication completion (about 60 seconds later).
Yes
Operation of IC481 is OK.
To STEP 5

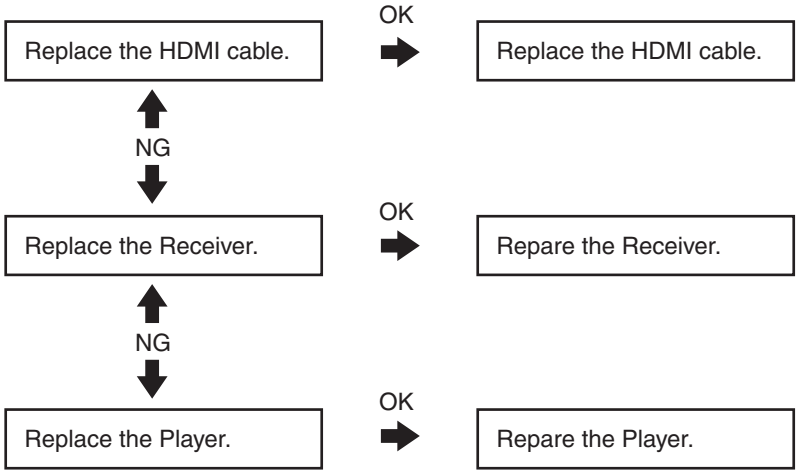
Step 5: Audio Out check


IC401 (pin 5)
RX6 (S/PDIF) output
Is there a SPDIF signal ?
No
Check the output from IC701 (pin 105) and R421.
Yes
IC101 (pin 5)
RX6 (S/PDIF) input for DIR
Is there a SPDIF signal ?
No
Check the parts and pattern between IC101 and CN401.
Yes
Refer to the DSP troubleshooting.

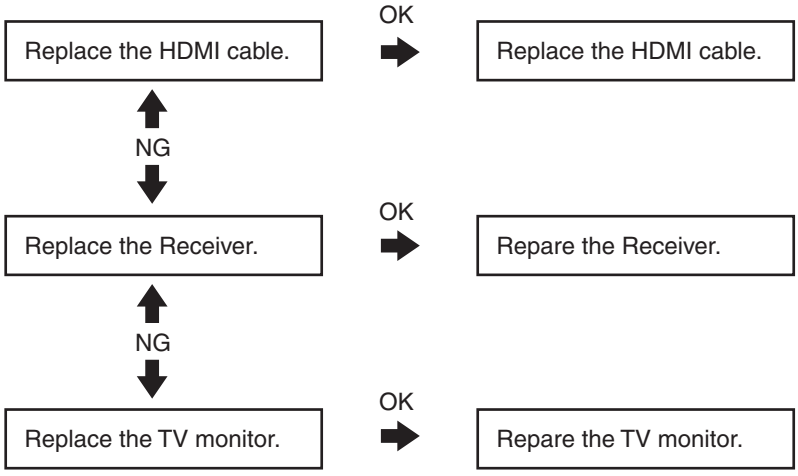
[3] HDMI TROUBLESHOOTING

■ HDMI Simple Diagnosis (VSX-918V)

1. Causes for noncompletion of HDMI authentication between the source equipment and this unit (the HDMI indicator is unlit or flashes)

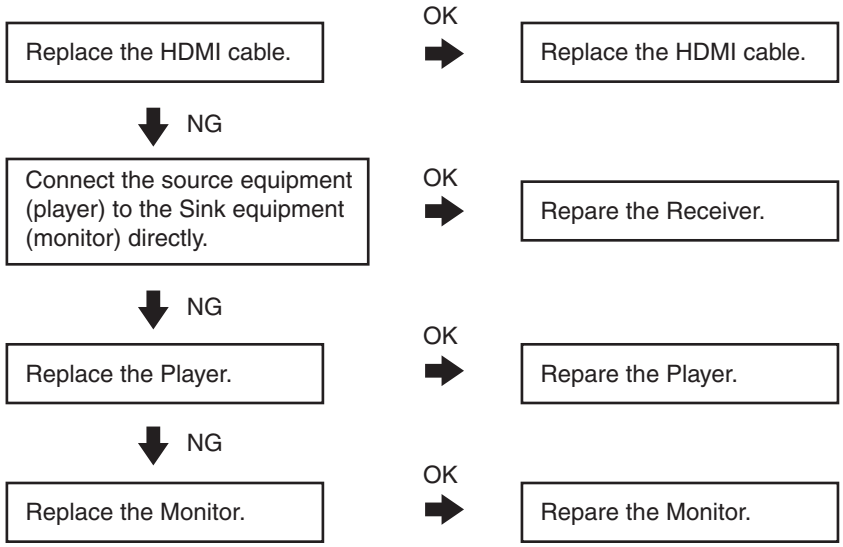


2. Causes for noncompletion of HDMI authentication between the monitor and this unit (no display or sound from the monitor)



■ HDMI Simple Diagnosis (VSX-818V)

Causes for no display or sound from the monitor



■ HDMI Troubleshooting (VSX-818V)

• This shows failure analysis of the HDMI Assy.

Preparation

Step 1-1: Screws on the rear panel

JA101 — COAXIAL jack

Do screws of COAXIAL jack securely tighten? — No → Tighten screws securely.

Yes

JA601, JA602, JA701 — HDMI connector

Do screws securely tighten? — No → Tighten screws securely.

*Should tighten one screw at least for diagnosis.

Yes

Step 1-2: FFC

CN1001, CN1002

Is FFC cable inserted securely? — No → Insert it securely.

Yes

Step 1-3: Connect the HDMI equipment

Source equipment:
Connect a DVD player to HDMI 1 or HDMI 2.

Sink equipment:
Connect a TV to HDMI OUT.

Step 1-4: POWER ON

Turn on the power of the Receiver and equipments which was connected with HDMI.

Step 1-5: Function switch (HDMI 1 or HDMI 2)

Switch the function that HDMI was assigned.
Factory shipments setting:
HDMI 1: DVD
HDMI 2: TV

To Step 2

Diagnosis

Step 2-1: CE

CN1001 (Pin 1) — CE

Is the voltage "H" (5 V)? — No → Diagnose the MAIN Assy.

Yes

Step 2-2: Power supply

CN1002 (Pins 1, 2) — V+5

Is the voltage 5 V? — No → Diagnose the MAIN Assy.

Yes

CN1002 (Pin 5) — V+7

Is the voltage 7 V? — No → Diagnose the MAIN Assy.

Yes

IC901 (Pin 1) — V+3R3V

Is the voltage 3.3 V? — No → Check the IC901. If IC901 is failure, replace IC901.

Yes

IC911 (Pin 5) — V+5HD

Is the voltage 5 V? — No → Check the IC911. If IC911 is failure, replace IC911.

Yes

* When connected the equipment to IN1;

JA101 (Pin 18) — V+5R0

Is the voltage 5 V? — No → Check the JA101. If JA101 is failure, replace JA101.

Yes

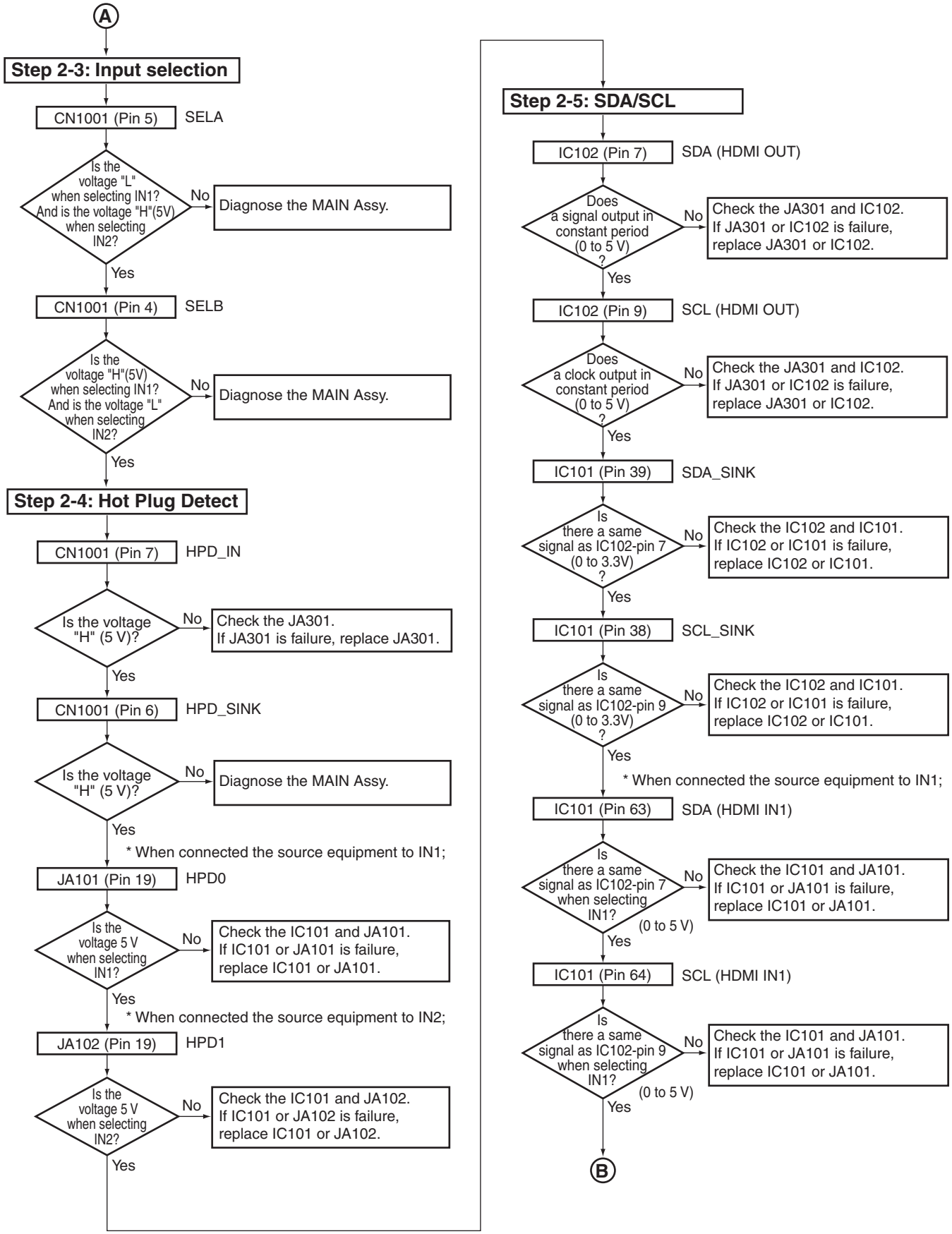
* When connected the equipment to IN2;

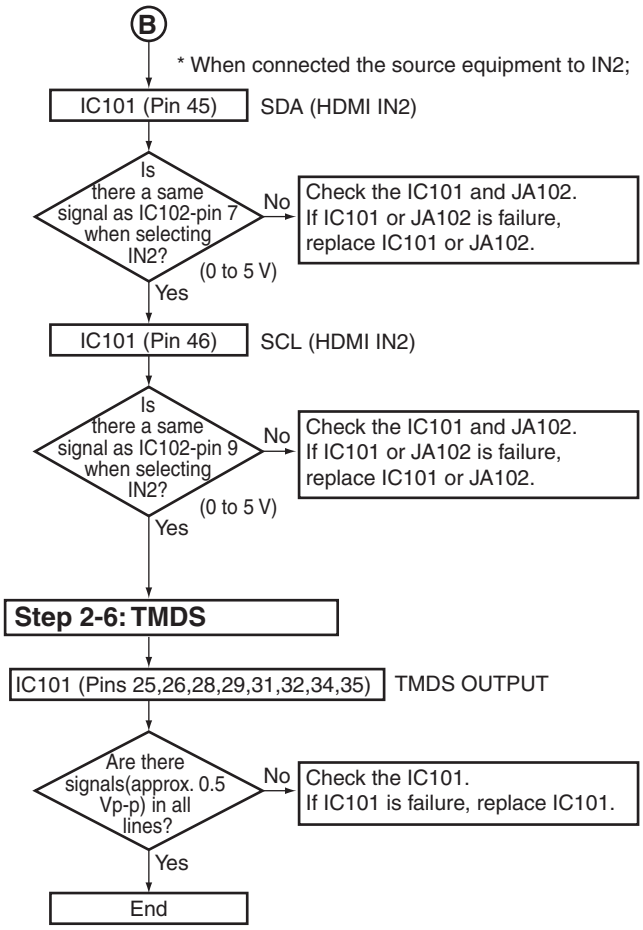
JA102 (Pin 18) — V+5R1

Is the voltage 5 V? — No → Check the JA102. If JA102 is failure, replace JA102.

Yes

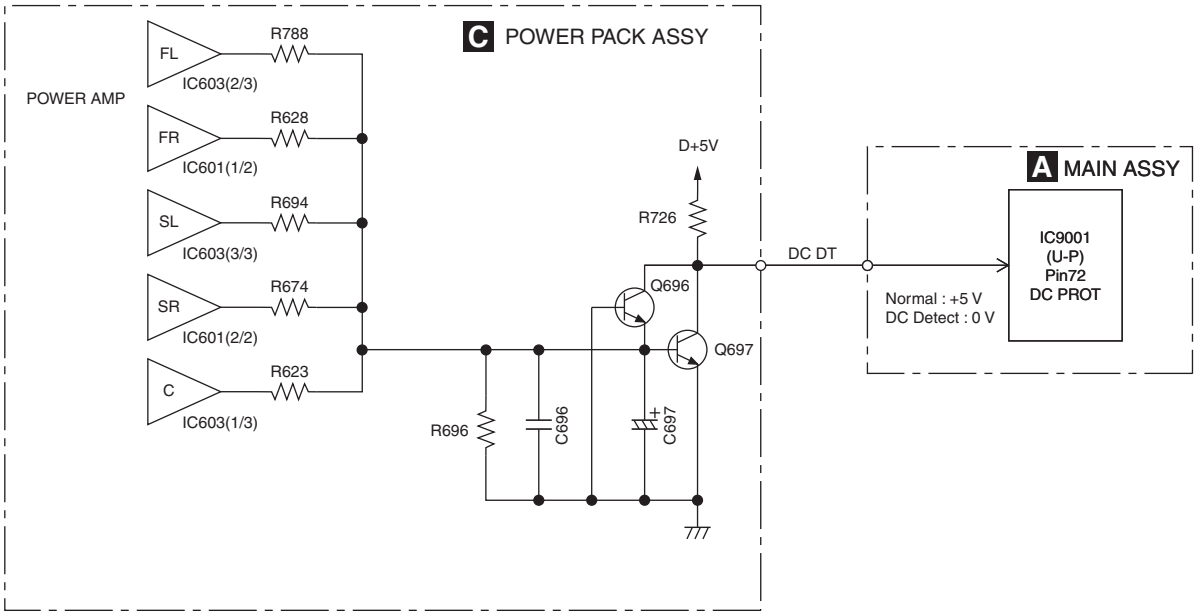
Ⓐ


A
Step 2-3: Input selection
CN1001 (Pin 5)
SELA
Is the voltage "L" when selecting IN1? And is the voltage "H"(5V) when selecting IN2?
No
Diagnose the MAIN Assy.
Yes
CN1001 (Pin 4)
SELB
Is the voltage "H"(5V) when selecting IN1? And is the voltage "L" when selecting IN2?
No
Diagnose the MAIN Assy.
Yes
Step 2-4: Hot Plug Detect
CN1001 (Pin 7)
HPD_IN
Is the voltage "H" (5 V)?
No
Check the JA301. If JA301 is failure, replace JA301.
Yes
CN1001 (Pin 6)
HPD_SINK
Is the voltage "H" (5 V)?
No
Diagnose the MAIN Assy.
Yes
* When connected the source equipment to IN1;
JA101 (Pin 19)
HPD0
Is the voltage 5 V when selecting IN1?
No
Check the IC101 and JA101. If IC101 or JA101 is failure, replace IC101 or JA101.
Yes
* When connected the source equipment to IN2;
JA102 (Pin 19)
HPD1
Is the voltage 5 V when selecting IN2?
No
Check the IC101 and JA102. If IC101 or JA102 is failure, replace IC101 or JA102.
Yes
Step 2-5: SDA/SCL
IC102 (Pin 7)
SDA (HDMI OUT)
Does a signal output in constant period (0 to 5 V) ?
No
Check the JA301 and IC102. If JA301 or IC102 is failure, replace JA301 or IC102.
Yes
IC102 (Pin 9)
SCL (HDMI OUT)
Does a clock output in constant period (0 to 5 V) ?
No
Check the JA301 and IC102. If JA301 or IC102 is failure, replace JA301 or IC102.
Yes
IC101 (Pin 39)
SDA_SINK
Is there a same signal as IC102-pin 7 (0 to 3.3V) ?
No
Check the IC102 and IC101. If IC102 or IC101 is failure, replace IC102 or IC101.
Yes
IC101 (Pin 38)
SCL_SINK
Is there a same signal as IC102-pin 9 (0 to 3.3V) ?
No
Check the IC102 and IC101. If IC102 or IC101 is failure, replace IC102 or IC101.
Yes
* When connected the source equipment to IN1;
IC101 (Pin 63)
SDA (HDMI IN1)
Is there a same signal as IC102-pin 7 when selecting IN1?
(0 to 5 V)
No
Check the IC101 and JA101. If IC101 or JA101 is failure, replace IC101 or JA101.
Yes
IC101 (Pin 64)
SCL (HDMI IN1)
Is there a same signal as IC102-pin 9 when selecting IN1?
(0 to 5 V)
No
Check the IC101 and JA101. If IC101 or JA101 is failure, replace IC101 or JA101.
Yes
B

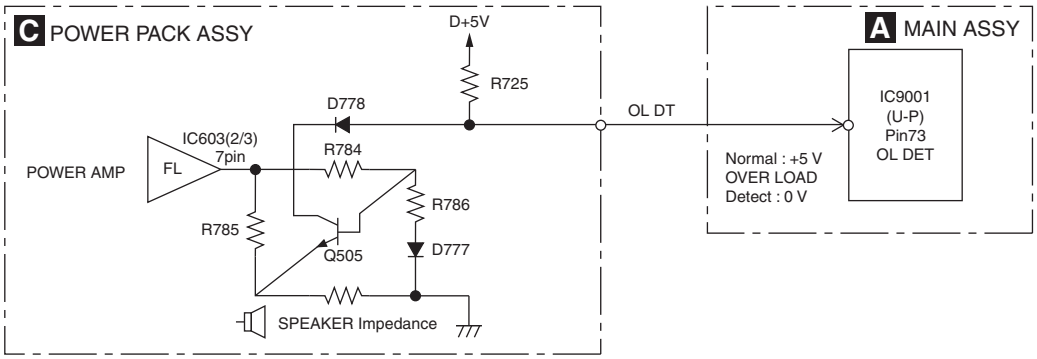

B
* When connected the source equipment to IN2;
IC101 (Pin 45)
SDA (HDMI IN2)
Is there a same signal as IC102-pin 7 when selecting IN2?
(0 to 5 V)
No
Check the IC101 and JA102. If IC101 or JA102 is failure, replace IC101 or JA102.
Yes
IC101 (Pin 46)
SCL (HDMI IN2)
Is there a same signal as IC102-pin 9 when selecting IN2?
(0 to 5 V)
No
Check the IC101 and JA102. If IC101 or JA102 is failure, replace IC101 or JA102.
Yes
Step 2-6: TMDS
IC101 (Pins 25,26,28,29,31,32,34,35)
TMDS OUTPUT
Are there signals(approx. 0.5 Vp-p) in all lines?
No
Check the IC101. If IC101 is failure, replace IC101.
Yes
End

5.2 DETECTION CIRCUIT

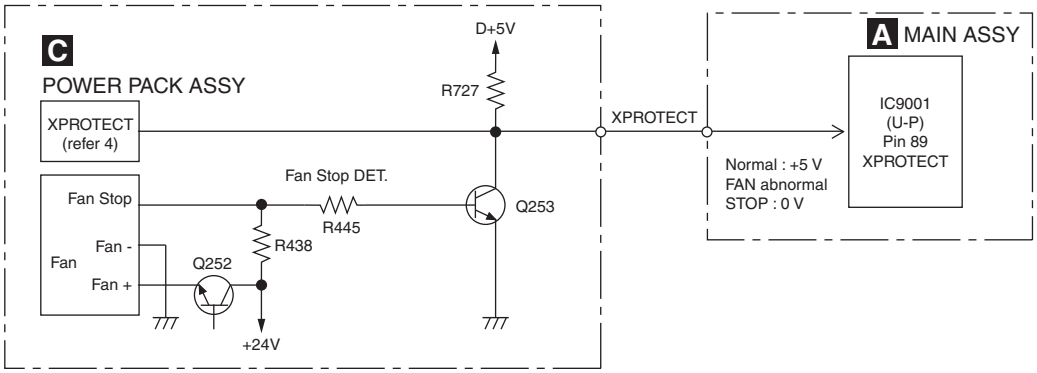
1. DC Derection Circuit Diagram : Example of VSX-918V/KUXJ/CA



2. Overload Detection Circuit Diagram: Example of VSX-918V/KUXJ/CA FRONT Channel



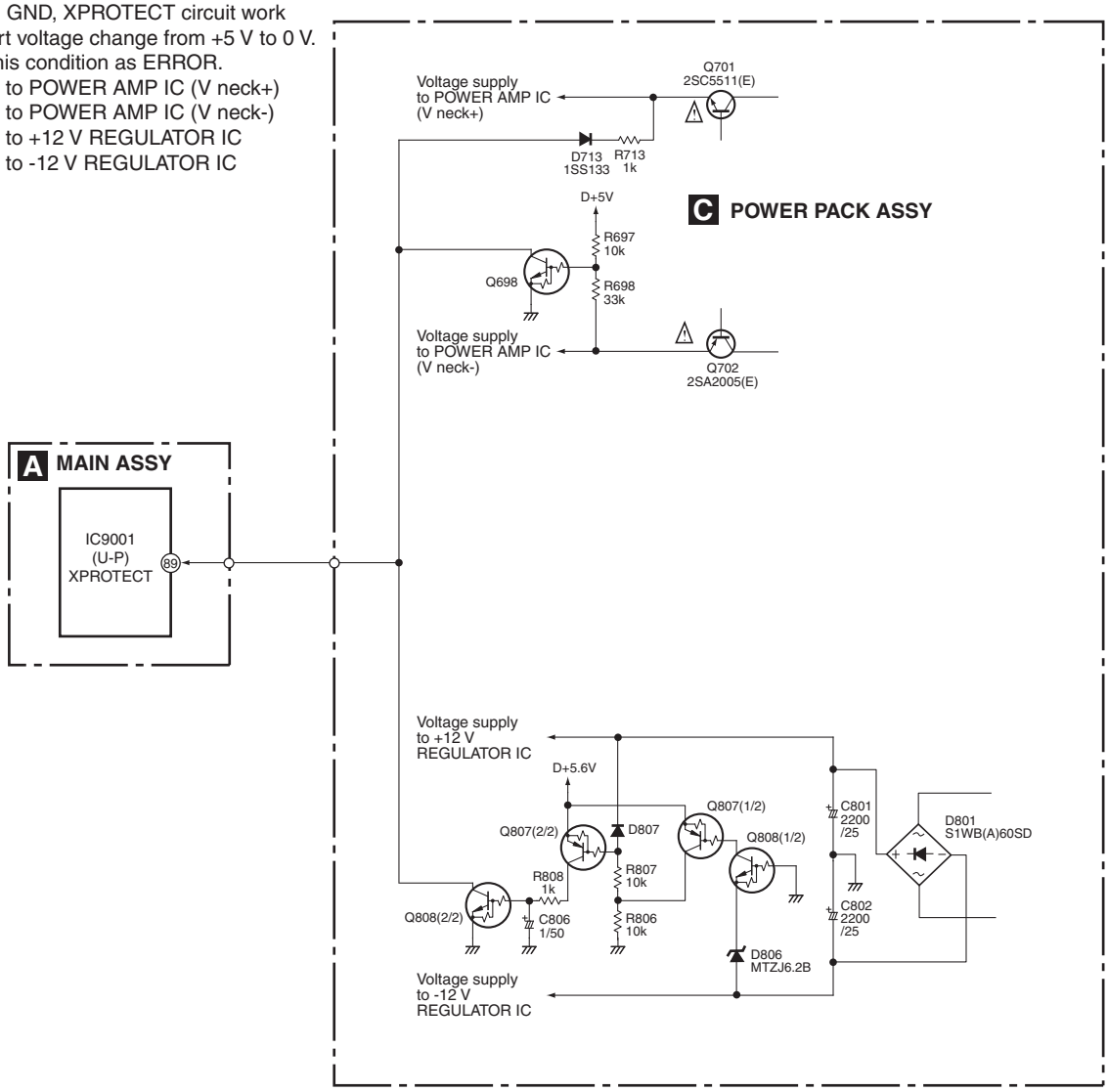
3. Fan Stop Protection Circuit Diagram



4. XPROTECT Detection Circuit Diagram

When below 6 kind of voltage supply become to be short circuit to GND, XPROTECT circuit work and U-P input port voltage change from +5 V to 0 V. The U-P detect this condition as ERROR.

- Voltage supply to POWER AMP IC (V neck+)
- Voltage supply to POWER AMP IC (V neck-)
- Voltage supply to +12 V REGULATOR IC
- Voltage supply to -12 V REGULATOR IC



5.3 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION

1. DC-abnormality detection

DC detection is only enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than 5 Hz is input, the DC_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.

In the case of simultaneous detection with the overload protection circuit, DC-abnormality detection is performed preferentially to overload detection.

When a DC abnormality is detected, A.MUTE* is turned on, speaker relay is turned off, then "AMP_ERR" flashes on the display.

*A.MUTE : Audio mute command

↓

The abnormality continues for 3 seconds.

↓ Continues.

The power is shut off.

↓

Power key not effective and POWER LED blinks (only for VSX-918V).

↓ Recovery

The program restarts.

However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push TUNE+ key + AUTO SURR/DIRECT key continuously 2sec.
(②: When a DC abnormality is detected and the power is shut off.)
Any other key input from front panel or remote control will not be detected.

2. Overload detection

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.

When an overload is detected, A.MUTE* is turned on, speaker relay is turned off, then "OVERLOAD" flashes on the display.

↓

The abnormality continues for 3 seconds.

↓ Continues.

The power is shut off.

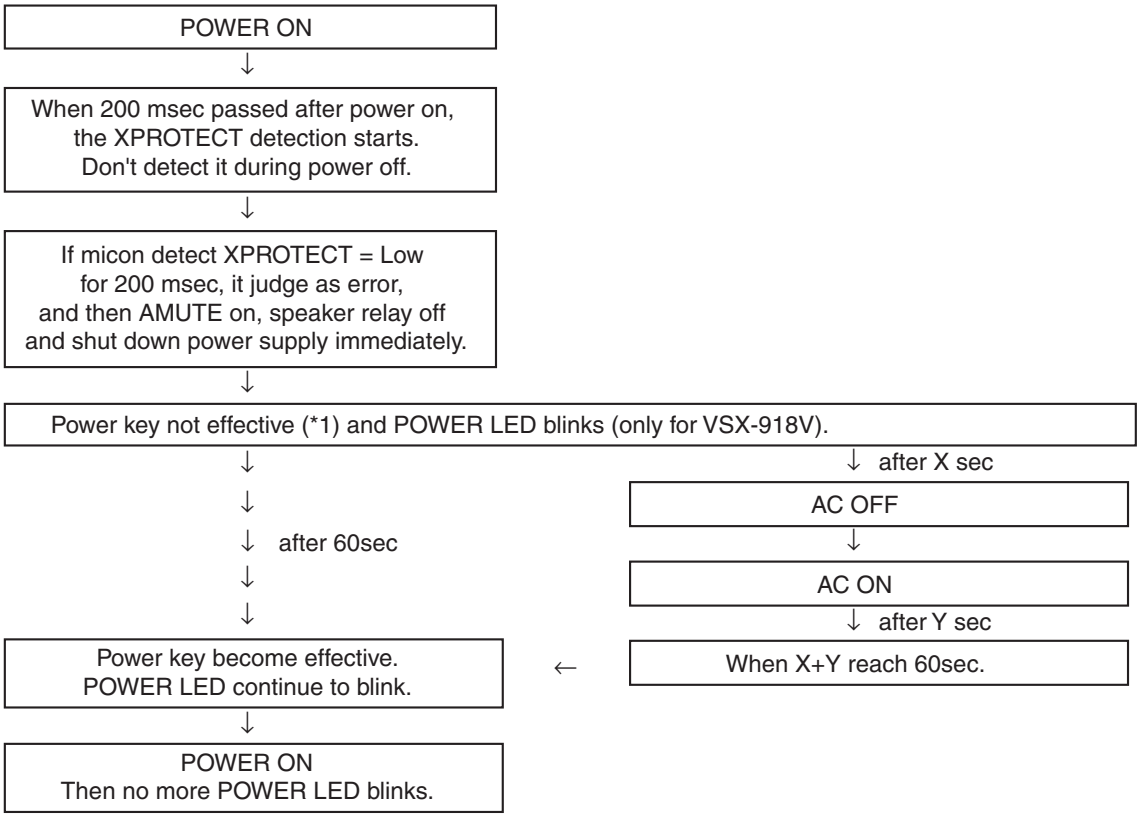
↓ Recovery

The power is shut off even if the unit recovers.

3. XPROTECT detection

XPROTECT is started to be monitored 200msec after power on.
XPROTECT port is checked every 20msec.
If Low level (ERROR) is recognized during consecutive 9 times, micon judge it as XPROTECT ERROR.

It processes more preferentially than DC abnormal detection and overload detection.


POWER ON
When 200 msec passed after power on, the XPROTECT detection starts. Don't detect it during power off.
If micon detect XPROTECT = Low for 200 msec, it judge as error, and then AMUTE on, speaker relay off and shut down power supply immediately.
Power key not effective (*1) and POWER LED blinks (only for VSX-918V).
after 60sec
after X sec
AC OFF
AC ON
after Y sec
When X+Y reach 60sec.
Power key become effective. POWER LED continue to blink.
POWER ON Then no more POWER LED blinks.

(*1) However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push TUNE+ key + AUTO SURR/DIRECT key continuously 2sec.
(Effective, only when power-off is carried out by DC detection / XPROTECT detection)
Any other key input from front panel or remote control will not be detected.

4. Fan stop detection operation flow in the XPROTECT detection

If the fan is forcibly stopped or become out of order, the 'XPROTECT' port becomes "L". Then an abnormality of fan is detected.

- Detection routine and recovery is same as "3. XPROTECT detection".

6. SERVICE MODE

There is no information to be shown in this chapter.

7. DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.
Note 2: For performing the diagnosis shown below, the following jigs for service are required:
• Extension jig cables : GGD1483, GGD1485

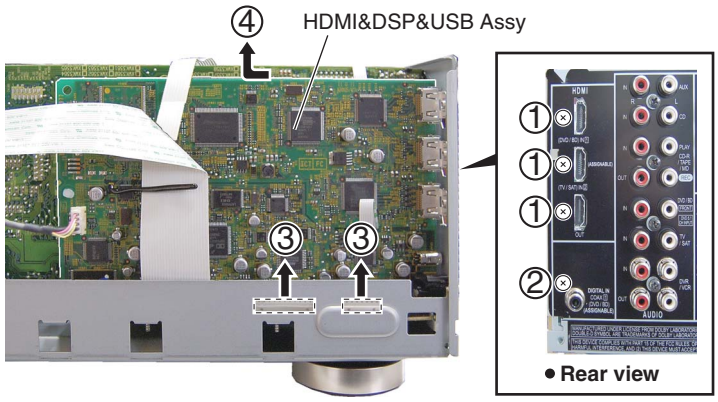
Diagnosis of HDMI

Caution:
Heatsink section in work becomes hot, and be careful with it.

❶ Remove the bonnet by removing the six screws.

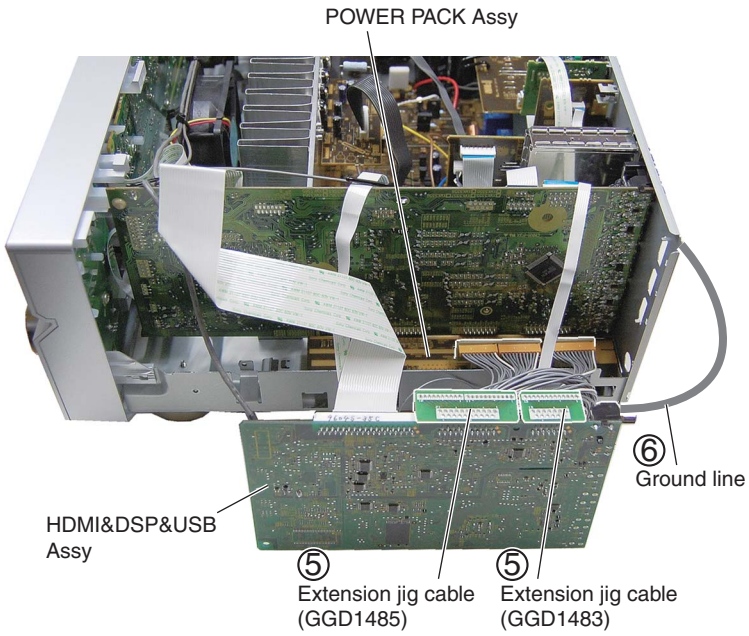
• For VSX-918V

① Remove the three screws.
② Remove the one screw.
③ Disconnect the two connectors.
④ Remove the HDMI&DSP&USB Assy.



⑤ Connect the two extension jig cables.
GGD1483
(HDMI&DSP&USB CN1 <=> POWER PACK CN805)
GGD1485
(HDMI&DSP&USB CN2 <=> POWER PACK CN806)

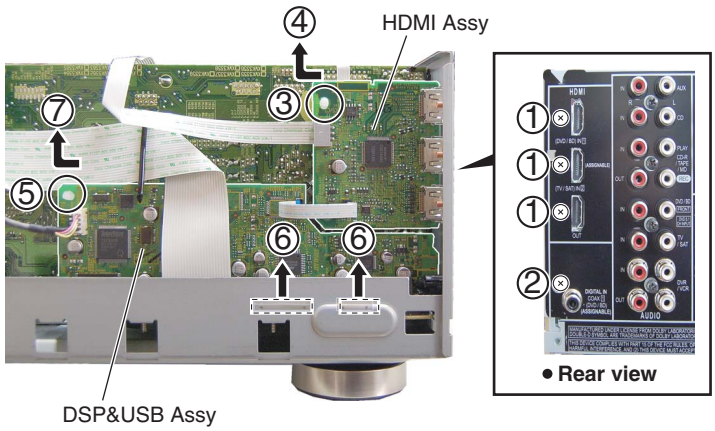
⑥ Connect the ground line.
(HDMI&DSP&USB COAX terminal <=> Rear panel,
One of the three HDMI terminals <=> Rear panel)



Diagnosis

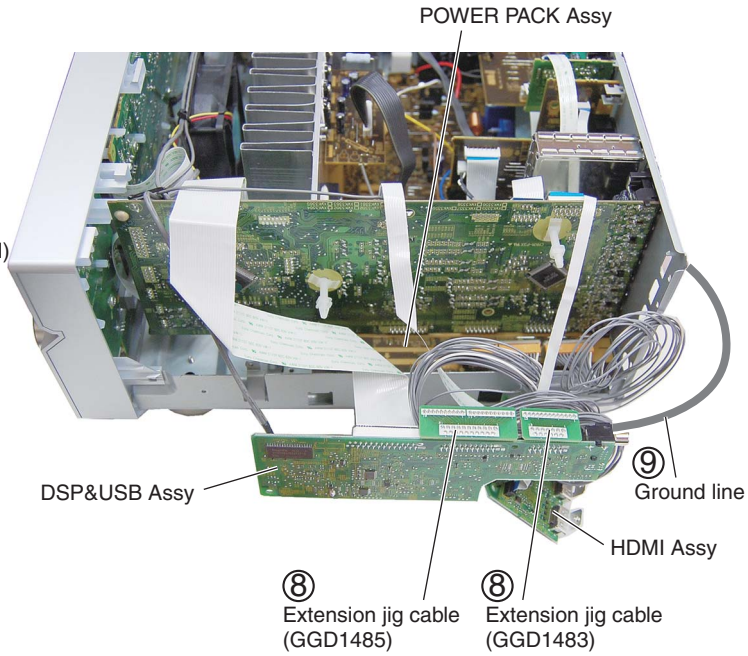
● **For VSX-818V**

① Remove the three screws.
② Remove the one screw.
③ Release the PCB holder.
④ Remove the HDMI Assy.
⑤ Release the PCB holder.
⑥ Disconnect the two connectors.
⑦ Remove the DSP&USB Assy.



⑧ Connect the two extension jig cables.
GGD1483
(DSP&USB CN1 <=> POWER PACK CN805)
GGD1485
(DSP&USB CN2 <=> POWER PACK CN806)

⑨ Connect the ground line.
(DSP&USB COAX terminal <=> Rear panel)
(HDMI One of the three HDMI terminals <=> Rear panel)



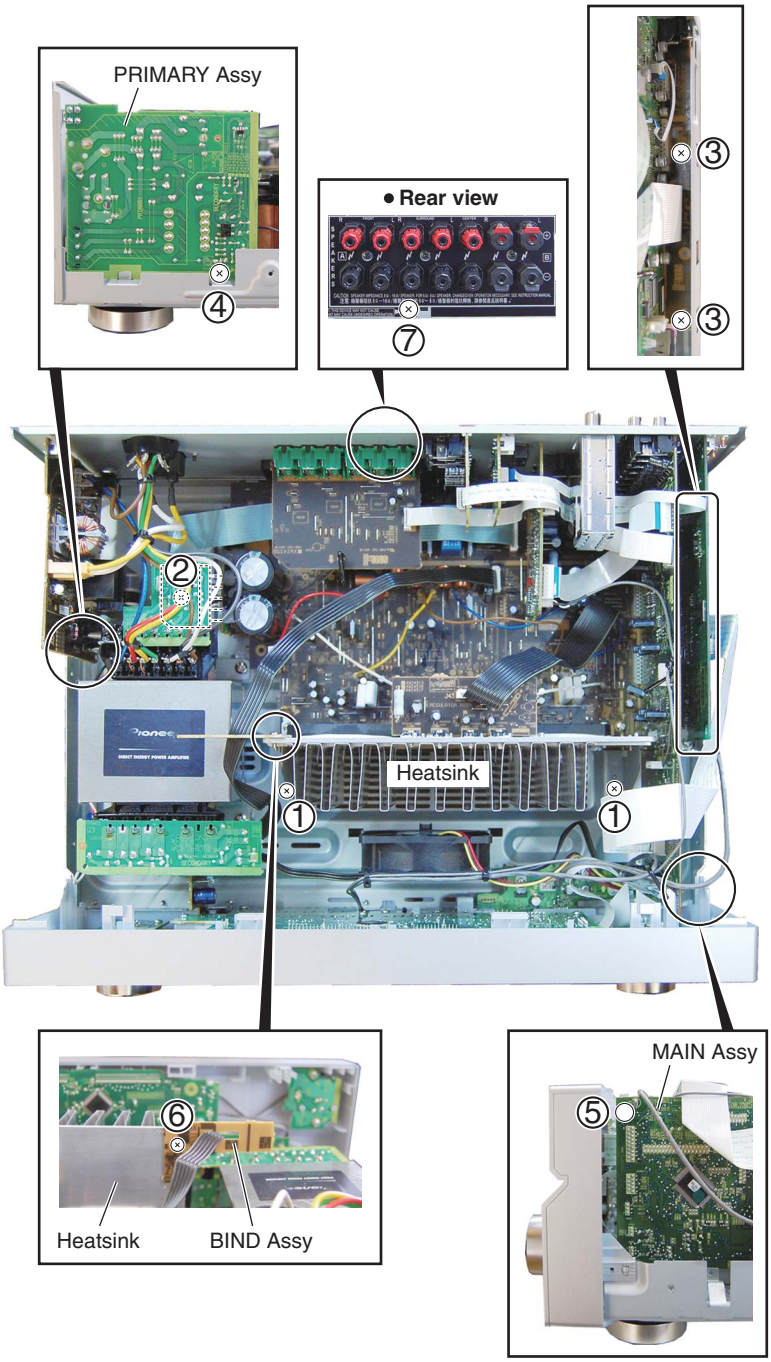
Diagnosis

Diagnosis of the Unit

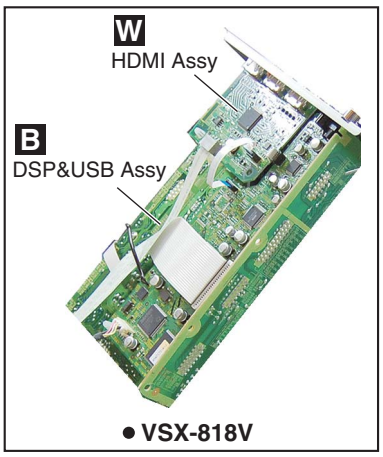
Caution:
Heatsink section in work becomes hot, and be careful with it.

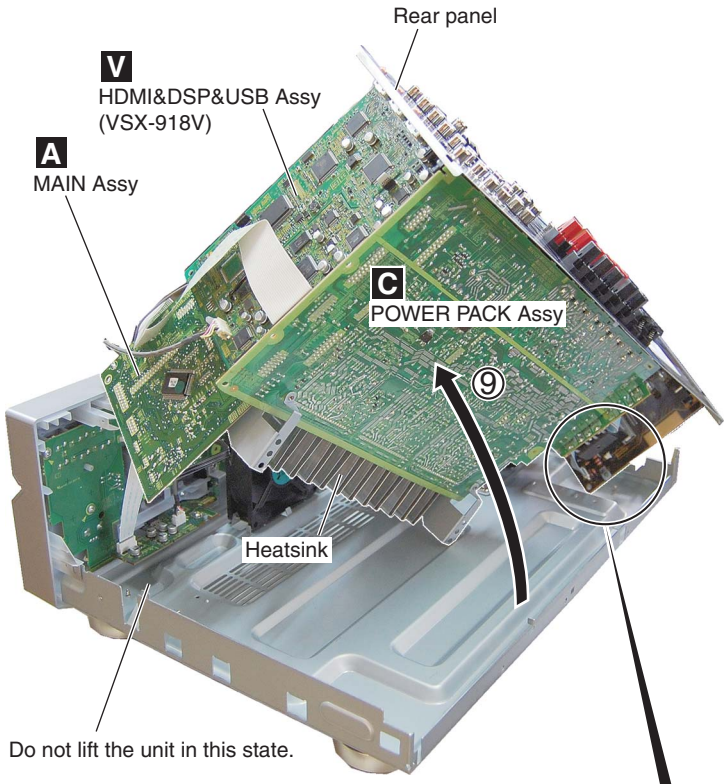
❶ Remove the bonnet by removing the six screws.

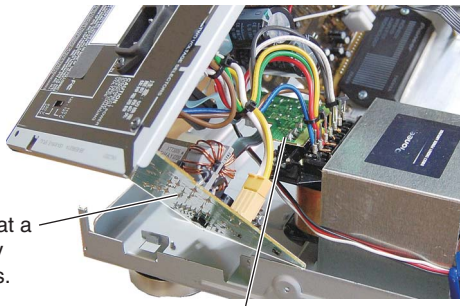
① Remove the two screws.
② Remove the one screw.
③ Remove the two screws.
④ Remove the one screw.
⑤ Remove the push rivet.
⑥ Remove the BIND Assy by removing the one screw.
⑦ Remove the one screw.
⑧ Release the binders, as required.



⑨ Arrange the unit as shown in the photo below.

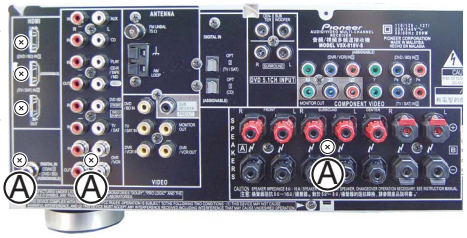





Be careful with it so that a part of PRIMARY Assy does not touch chassis.
Be careful with it when lifts an AMP. section not to damage the TRANS Assys.

Diagnosis

Caution:
During diagnosis, be sure NOT to remove the four screws marked Ⓐ in the above photo.
There is the case that a product does not work normally when removes these screws.

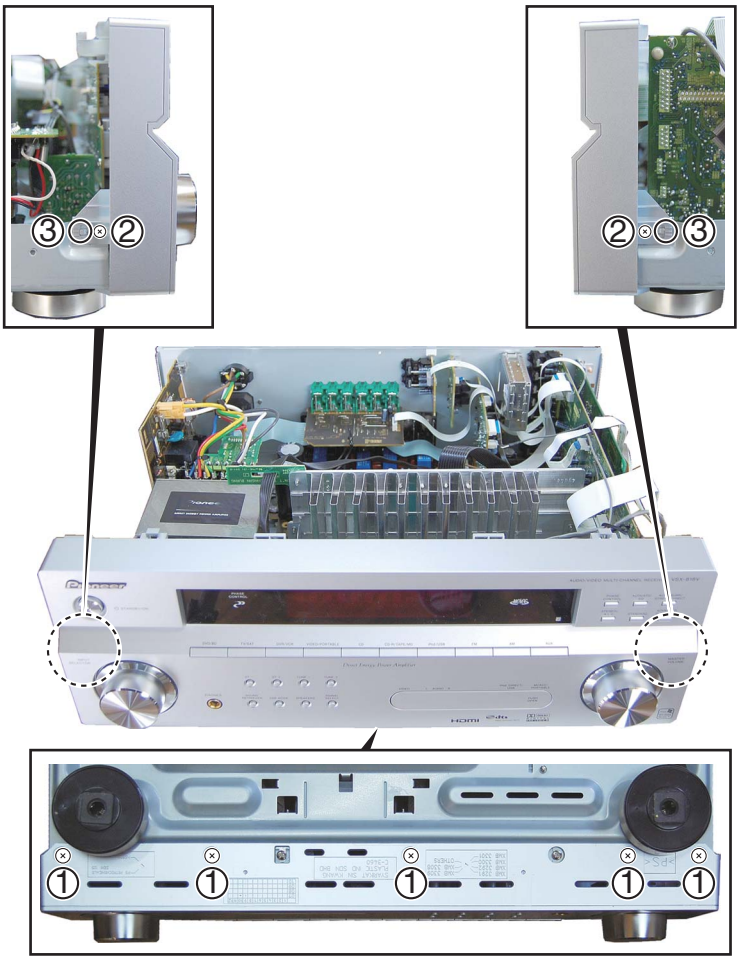


Front Panel Section

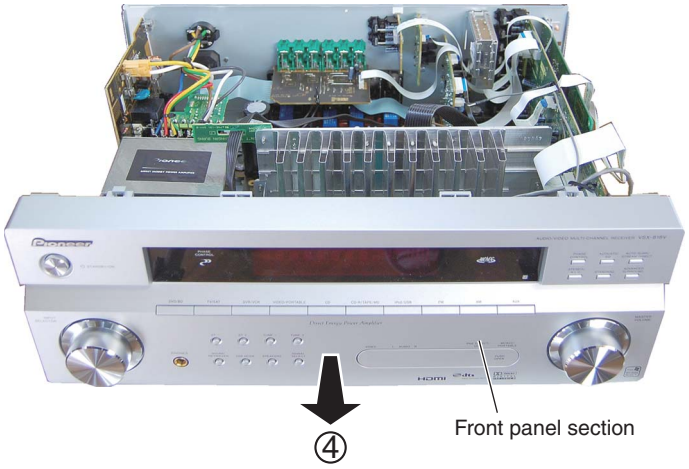
Caution:
Heatsink section in work becomes hot, and be careful with it.

❶ Remove the bonnet by removing the six screws.

① Remove the five screws.
② Remove the two screws.
③ Unhook the two hooks.



④ Remove the front panel section.



8. EACH SETTING AND ADJUSTMENT

8.1 HOW TO UPDATE FIRMWARE

■ USB Firmware Update

[Purpose]

Refer to this section when updating the USB firmware is required by the service information, etc.
It is able to update the USB firmware by using USB flash memory.

[Necessary Tools]

• USB Flash Memory which is saved the firmware file ("player.rom" file).

Note:

In rare cases, it is not able to update the firmware depending on the type of USB flash memory.
In such a case, try to use other model of USB flash memory.

[Procedures]

1. Tuner VOL to "-- dB".
2. Turn off the set.
3. Press "Standby/On" and "PHASE CONTROL" keys simultaneously for about 5 secs.
   "USB" or "IPOD" will be displayed on FL, soon after that "WAITING" display will appear.
   Then after about 20 secs, the current USB firmware version will be shown.
4. Insert the USB memory device containing latest USB firmware to the USB slot on front panel.
   Soon "UPDT 000" will appear on FL, followed by the progress counting down.
5. When it is finished, "COMPLETE" will appear on FL.
6. Turn off the set, then turn it on again.
7. You may check the version by turning the set to off, then pressing "Standby/On" and "PHASE CONTROL" keys simultaneously for about 5 secs.

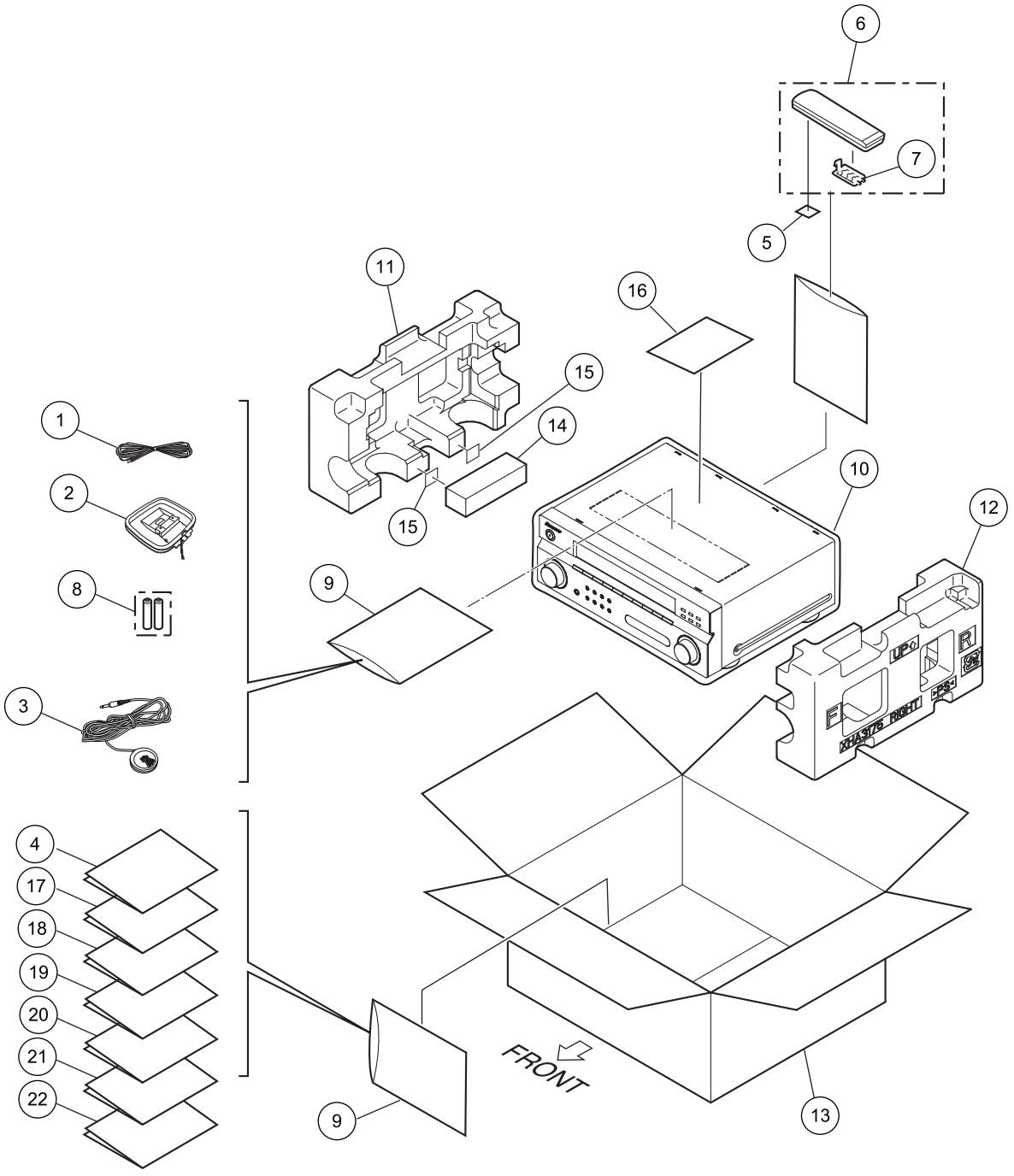
Note:

• Do NOT reconnect the USB flash memory which is saved the "player.rom" file.
• Do NOT change the function setting or turn off the power during step 5 through 7.
If you do, the updating is failed and it is required to replace the USB flash ROM on the USB module.

9. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

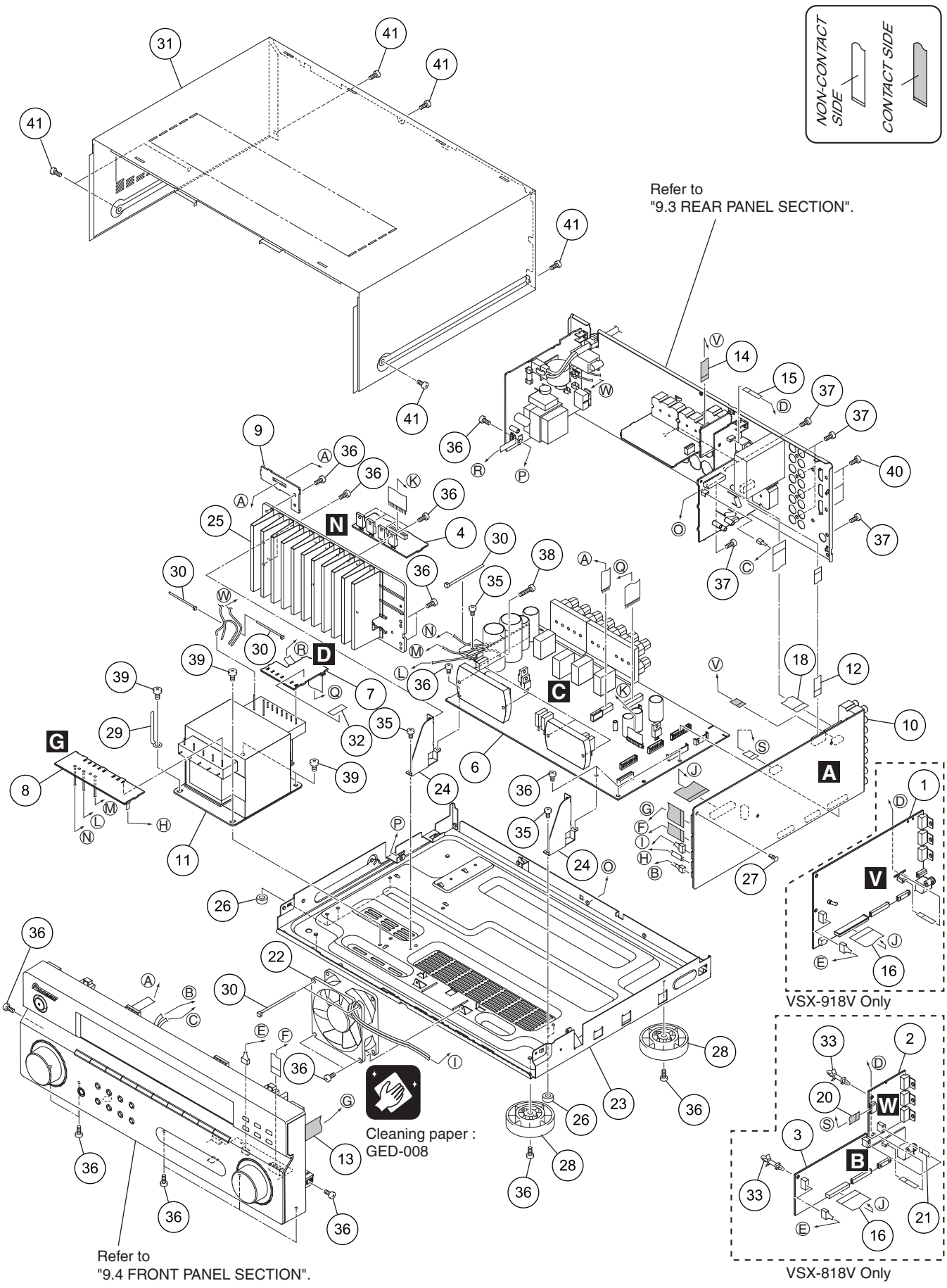
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7030
	2	AM Loop Antenna	ATB7013
	3	Microphone (for Auto MCACC setup)	APM7008
	4	Operating Instructions (English)	XRB3091
	5	Label (WEEE)	ARW7322
	6	Remote Control	See Contrast table (2)
	7	Battery Cover	AZN7933
NSP	8	Dry Cell Battery (AA, R6)	XEX3002
NSP	9	Polyethylene Bag (0.03 x 230 x 340)	Z21-038
	10	Packing Sheet	AHG7069
	11	Left Pad V5	XHA3174
	12	Right Pad V5	XHA3175
	13	Packing Case	See Contrast table (2)
	14	Sub Pad	XHA3179
NSP	15	DS Tape	XEH3001
NSP	16	Warranty Card	ARY7111
	17	Operating Instructions (Italian)	XRC3320
	18	Operating Instructions (Dutch)	XRC3321
	19	Operating Instructions (Spanish)	XRC3322
	20	Operating Instructions (French)	XRC3323
	21	Operating Instructions (German)	XRC3324
	22	Operating Instructions (Russian)	XRC3331

(2) CONTRAST TABLE

VSX-918V-K/MYSXJ5, VSX-918V-S/MYSXJ5, VSX-818V-K/MYSXJ5 and VSX-818V-S/MYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-918V-K/ MYSXJ5	VSX-918V-S/ MYSXJ5	VSX-818V-K/ MYSXJ5	VSX-818V-S/ MYSXJ5
	6	Remote Control	XXD3166	XXD3167	XXD3166	XXD3167
	13	Packing Case	XHD3764	XHD3765	XHD3773	XHD3774

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

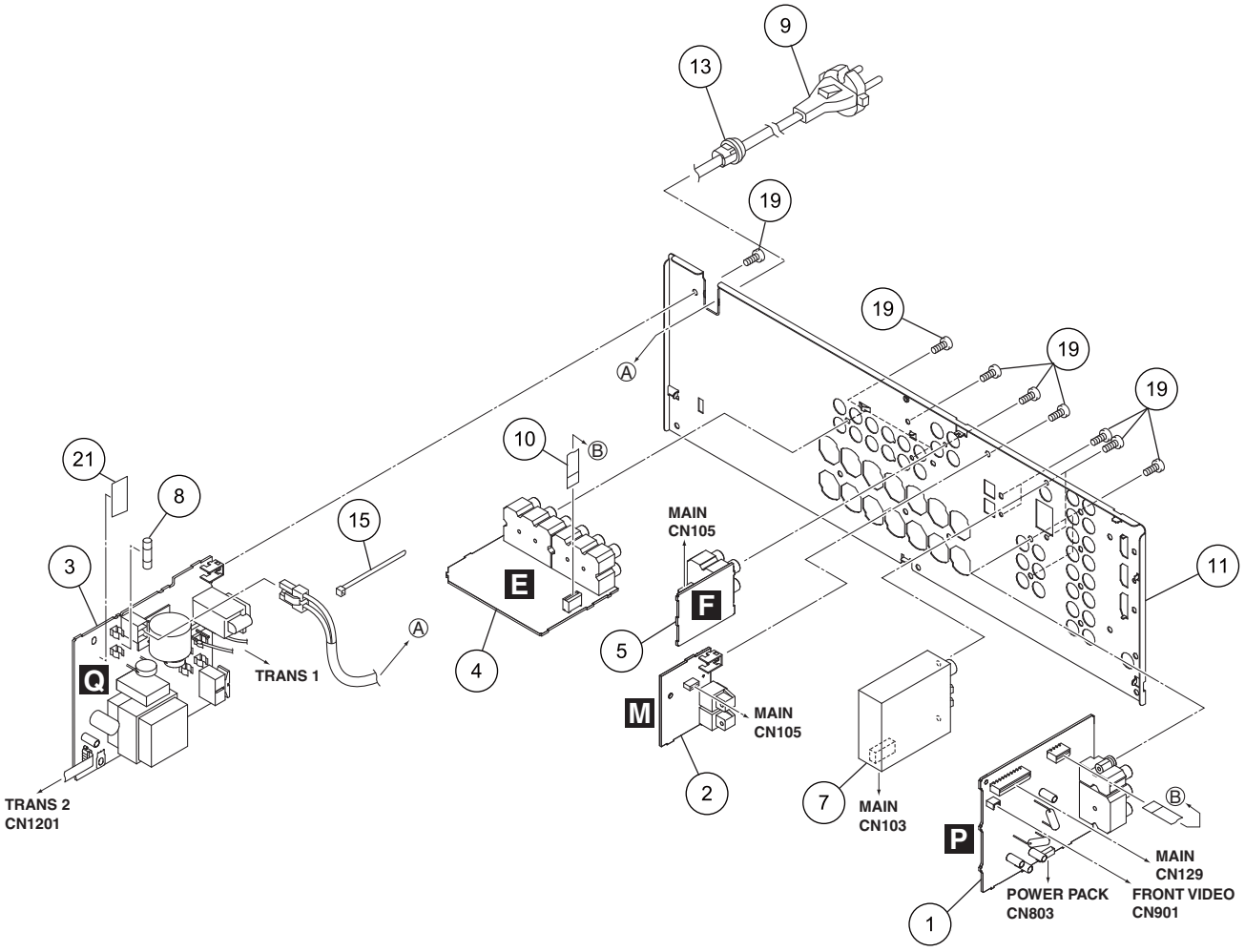
Mark	No.	Description	Part No.
	1	HDMI_DSP_USB Assy	See Contrast table (2)
	2	HDMI Assy	See Contrast table (2)
	3	DSP_USB Assy	See Contrast table (2)
	4	REGULATOR Assy	XWZ4317
	5	•••••	
	6	POWER PACK Assy	XWZ4326
	7	TRANS 2 Assy	XWZ4335
	8	TRANS 3 Assy	XWZ4337
	9	BIND Assy	XWZ4344
	10	MAIN Assy	See Contrast table (2)
⚠	11	Power Transformer (T1501)	XTS3113
	12	11P Flexible Cable (J1911)	XDD3189
	13	17P Flexible Cable (J1905)	XDD3200
	14	7P Flexible Cable (J1919)	XDD3235
	15	5P Flexible Cable (J1912)	XDD3248
	16	35P Flexible Cable (J1917)	See Contrast table (2)
	17	•••••	
	18	19P Flexible Cable (J1908)	See Contrast table (2)
	19	•••••	
	20	7P Flexible Cable	See Contrast table (2)
	21	5P Flexible Cable	See Contrast table (2)
⚠	22	DC Fan Motor	XXM3012
NSP	23	Chassis 918	XNA3060
	24	H/S Angle V3	XNG3145
NSP	25	H/Sink V5	XNH3048
NSP	26	Spacer	AEB7092
	27	Push Rivet	AEC7205
	28	Insulator	PNW2766
	29	Cord Clamper	RNH1005
NSP	30	Binder (BK-1)	ZCA-BK1
	31	Bonnet	See Contrast table (2)
	32	ICP Label	XAX3121
NSP	33	PCB Holder	See Contrast table (2)
	34	•••••	
	35	Screw	BBZ30P060FCC
	36	Screw	BBZ30P080FNI
	37	Screw	BBZ30P080FTB
	38	Screw	BBZ30P140FTC
	39	Screw	BBZ40P080FNI
	40	Screw	PMZ30P060FCC
	41	Screw	See Contrast table (2)

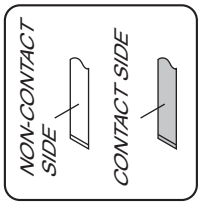
(2) CONTRAST TABLE

VSX-918V-K/MYSXJ5, VSX-918V-S/MYSXJ5, VSX-818V-K/MYSXJ5 and VSX-818V-S/MYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-918V-K/ MYSXJ5	VSX-918V-S/ MYSXJ5	VSX-818V-K/ MYSXJ5	VSX-818V-S/ MYSXJ5
	1	HDMI_DSP_USB Assy	AWX8977	AWX8977	Not used	Not used
	2	HDMI Assy	Not used	Not used	AWX8966	AWX8966
	3	DSP_USB Assy	Not used	Not used	AWX9164	AWX9164
	10	MAIN Assy	XWK3363	XWK3363	XWK3359	XWK3359
	16	35P Flexible Cable (J1917)	XDD3249	XDD3249	Not used	Not used
	16	27P Flexible Cable (J1931)	Not used	Not used	XDD3271	XDD3271
	18	19P Flexible Cable (J1908)	XDD3253	XDD3253	Not used	Not used
	18	13P Flexible Cable (J1907)	Not used	Not used	XDD3259	XDD3259
	20	7P Flexible Cable (J1909)	Not used	Not used	XDD3255	XDD3255
	21	5P Flexible Cable (J1910)	Not used	Not used	XDD3256	XDD3256
	31	Bonnet	XZN3196	XZN3197	XZN3196	XZN3197
NSP	33	PCB Holder	Not used	Not used	PNW2174	PNW2174
	41	Screw	BBZ30P080FTB	BBZ30P080FNI	BBZ30P080FTB	BBZ30P080FNI

9.3 REAR PANEL SECTION





(1) REAR PANEL SECTION PARTS LIST

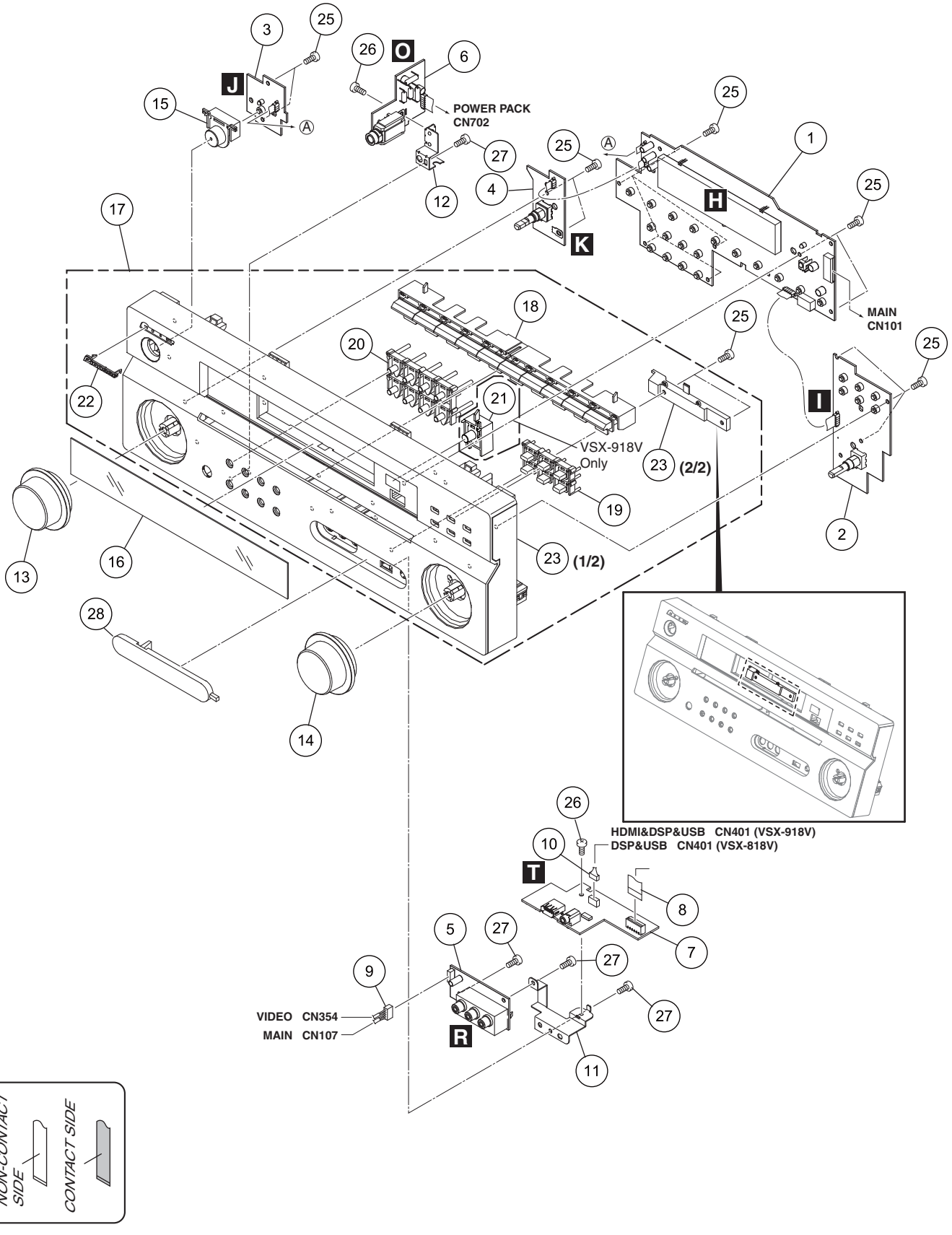
Mark	No.	Description	Part No.
	1	VIDEO Assy	See Contrast table (2)
	2	DIGITAL INPUT Assy	XWZ4299
	3	PRIMARY Assy	XWZ4302
	4	COMPONENT VIDEO Assy	XWZ4339
	5	5.1CH INPUT Assy	XWZ4341
	6	•••••	
	7	FM/AM TUNER Unit	AXX7170
⚠	8	Fuse (FU1: T3.15 A)	REK1027
⚠	9	AC Power Cord	VDG1080
	10	7P Flexible Cable (J1913)	XDD3254
	11	R Panel	See Contrast table (2)
	12	•••••	
	13	Cord Stopper	CM-22B
	14	•••••	
NSP	15	Binder (BK-1)	ZCA-BK1
	16	•••••	
	17	•••••	
	18	Screw	BBZ30P080FNI
	19	Screw	BBZ30P080FTB
	20	Screw	PMZ30P060FCC
NSP	21	Fuse Card	AAX7493

(2) CONTRAST TABLE

VSX-918V-K/MYSXJ5, VSX-918V-S/MYSXJ5, VSX-818V-K/MYSXJ5 and VSX-818V-S/MYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-918V-K/ MYSXJ5	VSX-918V-S/ MYSXJ5	VSX-818V-K/ MYSXJ5	VSX-818V-S/ MYSXJ5
	1	VIDEO Assy	XWZ4294	XWZ4294	XWZ4292	XWZ4292
	11	R Panel	XNC3539	XNC3540	XNC3548	XNC3549

9.4 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT DISPLAY Assy	See Contrast table (2)
	2	ROTARY ENCODER Assy	XWZ4286
	3	POWER KEY Assy	See Contrast table (2)
	4	JOG Assy	XWZ4289
	5	FRONT VIDEO Assy	XWZ4300
	6	HEADPHONE Assy	XWZ4321
	7	FRONT IN Assy	XWK3366
	8	9P Flexible Cable (J1906)	XDD3247
	9	5P Shield Cable (J1904)	XDX3054
	10	4P Shield Cable (J1902)	XDX3063
	11	Earth Plate FR V3	XNG3144
NSP	12	HP GND Plate	XNG3178
	13	VOL Knob V4	See Contrast table (2)
	14	VOL Knob V5	See Contrast table (2)
	15	STANDBY BTN Assy	See Contrast table (2)
	16	D Panel	See Contrast table (2)
NSP	17	F Panel Assy	See Contrast table (2)
	18	FUNC BTN	See Contrast table (2)
	19	SUB BTN	See Contrast table (2)
	20	TUNER BTN	See Contrast table (2)
	21	C Lens V3	See Contrast table (2)
	22	Pioneer Name Plate	See Contrast table (2)
	23	FRT Panel	See Contrast table (2)
	24	•••••	
	25	Screw	BBZ30P080FTC
	26	Screw	BBZ30P080FNI
	27	Screw	BPZ30P080FTC
	28	Inp. Cover	See Contrast table (2)

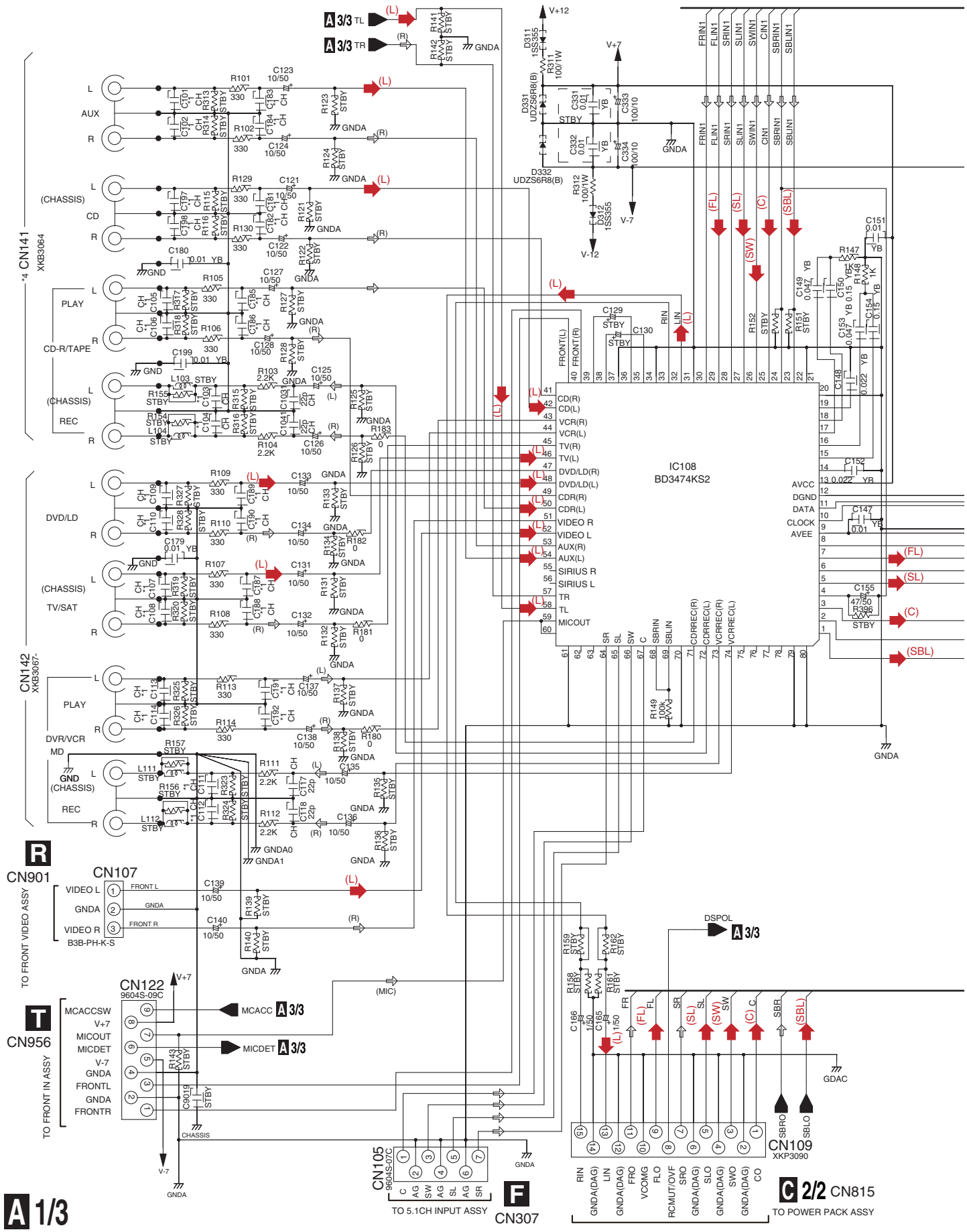
(2) CONTRAST TABLE

VSX-918V-K/MYSXJ5, VSX-918V-S/MYSXJ5, VSX-818V-K/MYSXJ5 and VSX-818V-S/MYSXJ5 are constructed the same except for the following:

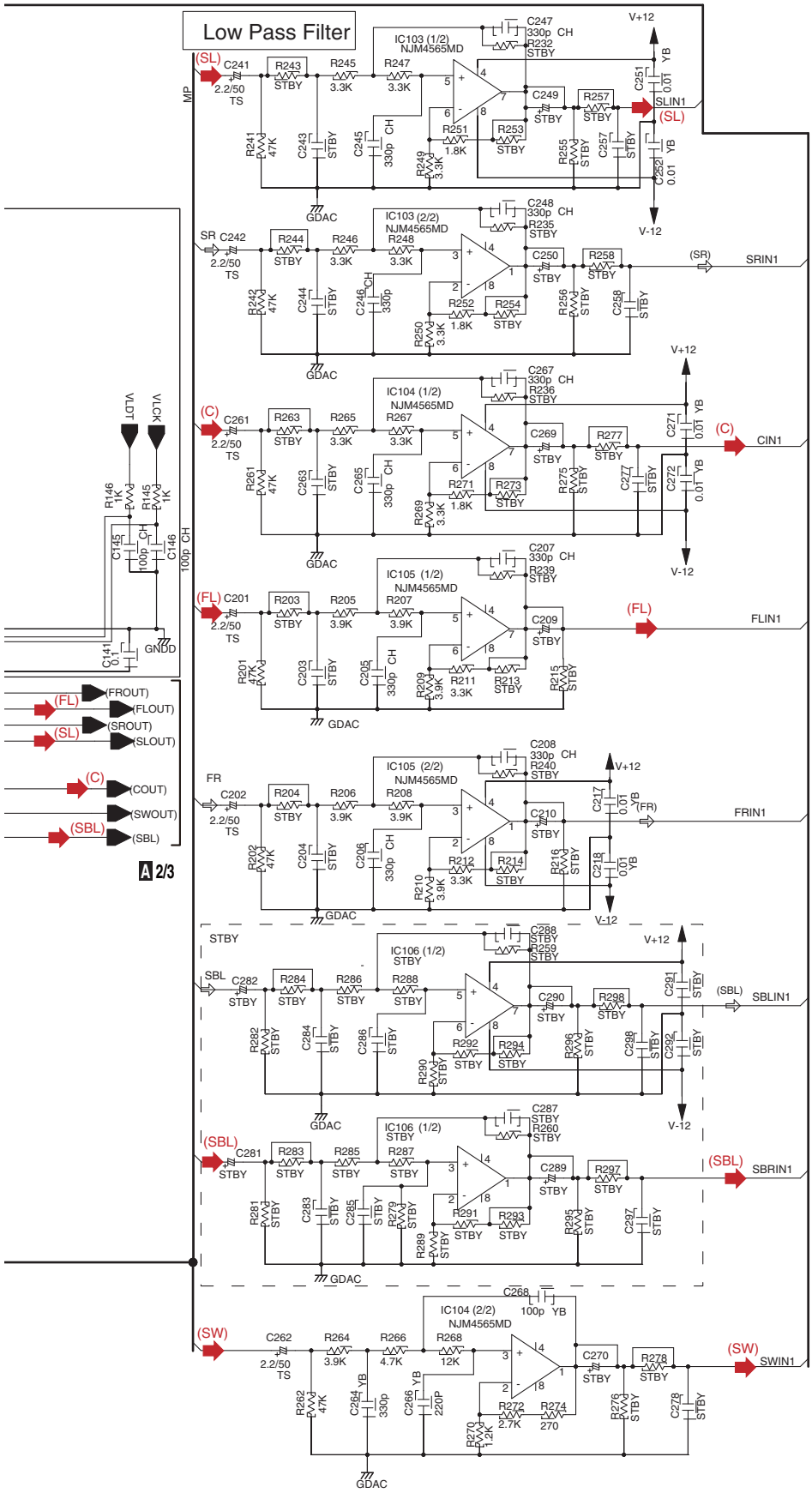
Mark	No.	Symbol and Description	VSX-918V-K/ MYSXJ5	VSX-918V-S/ MYSXJ5	VSX-818V-K/ MYSXJ5	VSX-818V-S/ MYSXJ5
	1	FRONT DISPLAY Assy	XWZ4285	XWZ4285	XWZ4284	XWZ4284
	3	POWER KEY Assy	XWZ4288	XWZ4288	XWZ4287	XWZ4287
	13	VOL Knob V4	XAB3053	XAB3056	XAB3053	XAB3056
	14	VOL Knob V5	XAB3058	XAB3059	XAB3058	XAB3059
	15	STANDBY BTN Assy	XAD3216	XAD3217	Not used	Not used
	15	STANDBY BTN	Not used	Not used	XAD3202	XAD3208
	16	D Panel	XAK3593	XAK3593	XAK3594	XAK3594
NSP	17	F Panel Assy	XXG3344	XXG3345	XXG3353	XXG3354
	18	FUNC BTN	XAD3257	XAD3258	XAD3257	XAD3258
	19	SUB BTN	XAD3259	XAD3260	XAD3259	XAD3260
	20	TUNER BTN	XAD3261	XAD3262	XAD3261	XAD3262
	21	C Lens V3	XAK3534	XAK3534	Not used	Not used
	22	Pioneer Name Plate	XAM3006	VAM1129	XAM3006	VAM1129
	23	FRT Panel	XMB3293	XMB3294	XMB3302	XMB3303
	28	Inp. Cover	XAK3596	XAK3597	XAK3596	XAK3598

10. SCHEMATIC DIAGRAM

10.1 MAIN ASSY (1/3)

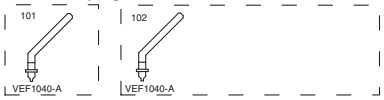


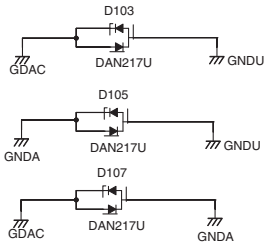
A 1/3 MAIN ASSY (VSX-918V:XWK3363) (VSX-818V:XWK3359)



NOTES: NO INDICATED PARTS IS....
RESISTOR: RS1/16S***J-T, RS1/10S***J-T
CHEMICAL CAPACITOR: CEAT***M**-T,-TS
CERAMIC CAPACITOR: CCSRCH****50-T
CKSRYB****50-T
(SQ):CKSQ.CCSQ
( ) : AUDIO SIGNAL FLOW

For Wire Styling





*1	100p

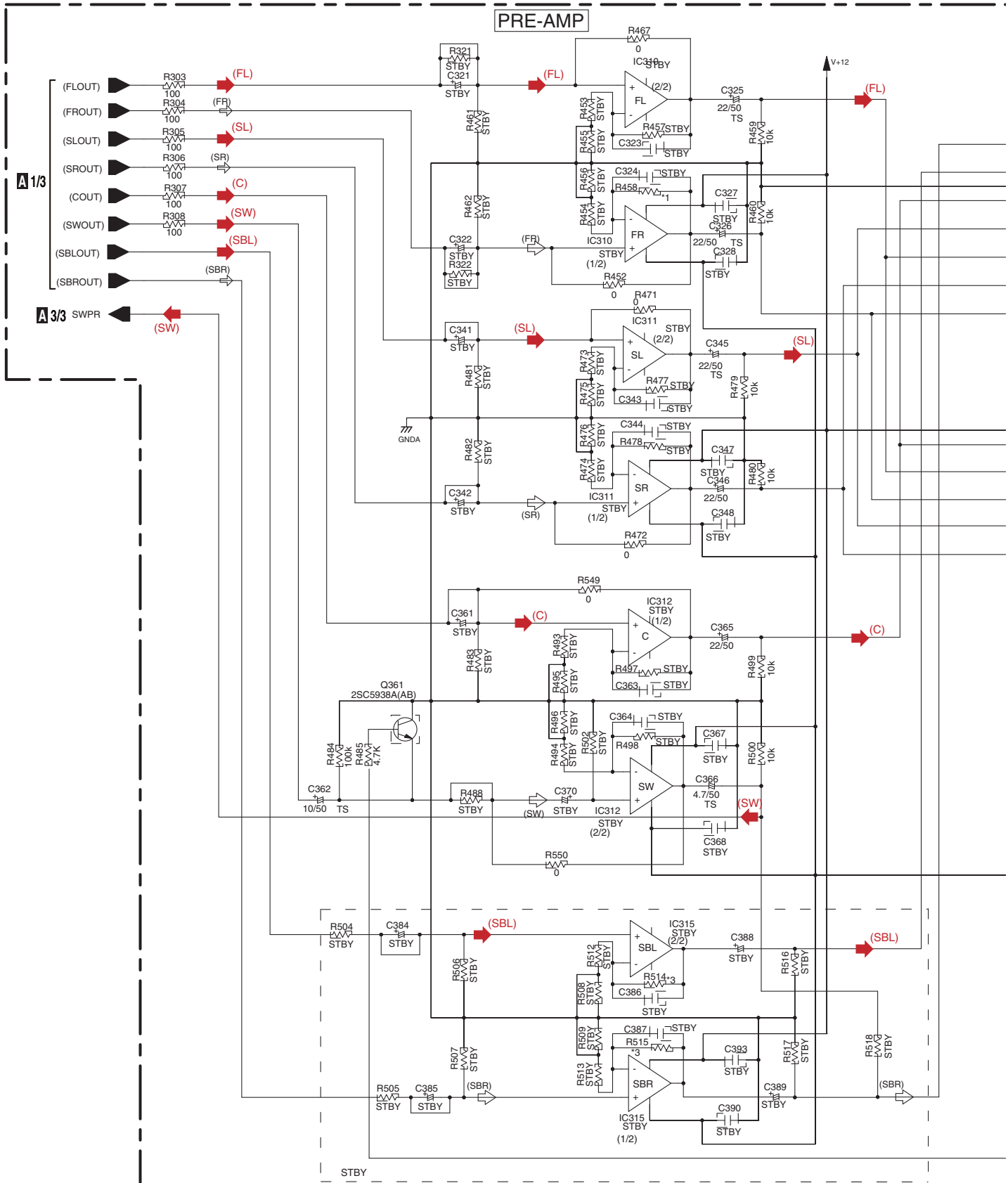
*4	VSX-918V, VSX-818V
CN141	XKB3064

MAIN ASSY(1/3)

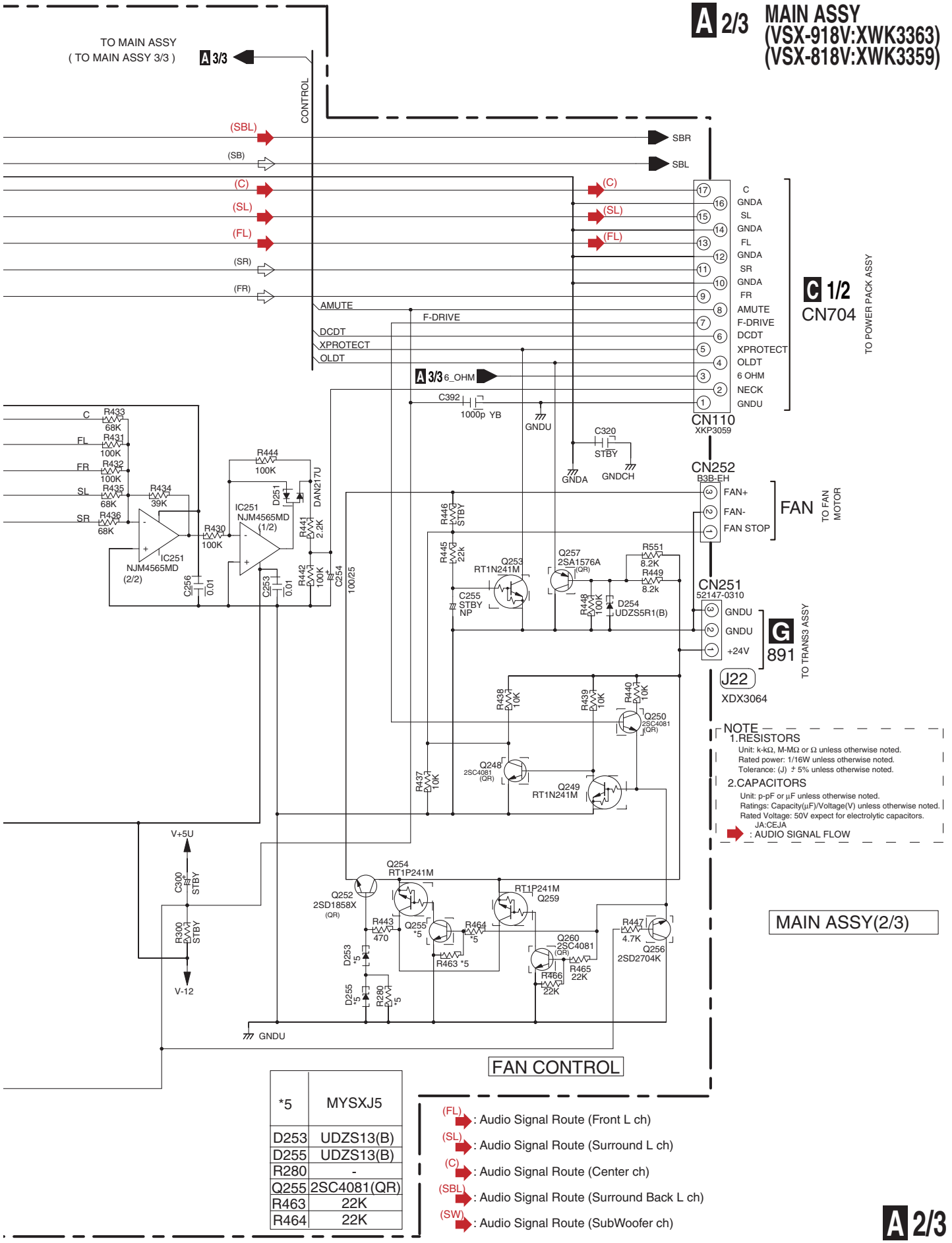
(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)

A 1/3

10.2 MAIN ASSY (2/3)

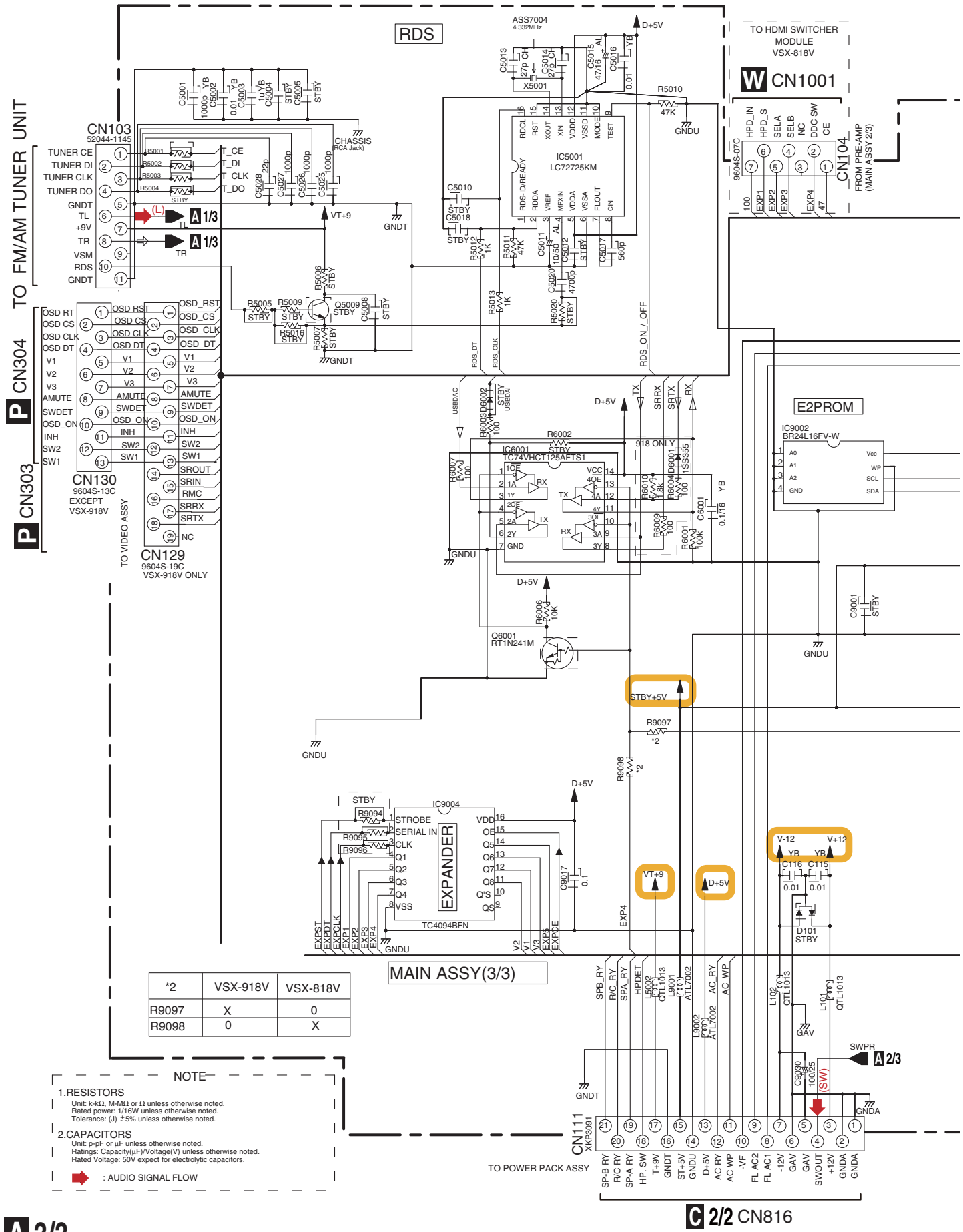


A 2/3



*5	MYSXJ5
D253	UDZS13(B)
D255	UDZS13(B)
R280	-
Q255	2SC4081(QR)
R463	22K
R464	22K

10.3 MAIN ASSY (3/3)



*2	VSX-918V	VSX-818V
R9097	X	0
R9098	0	X

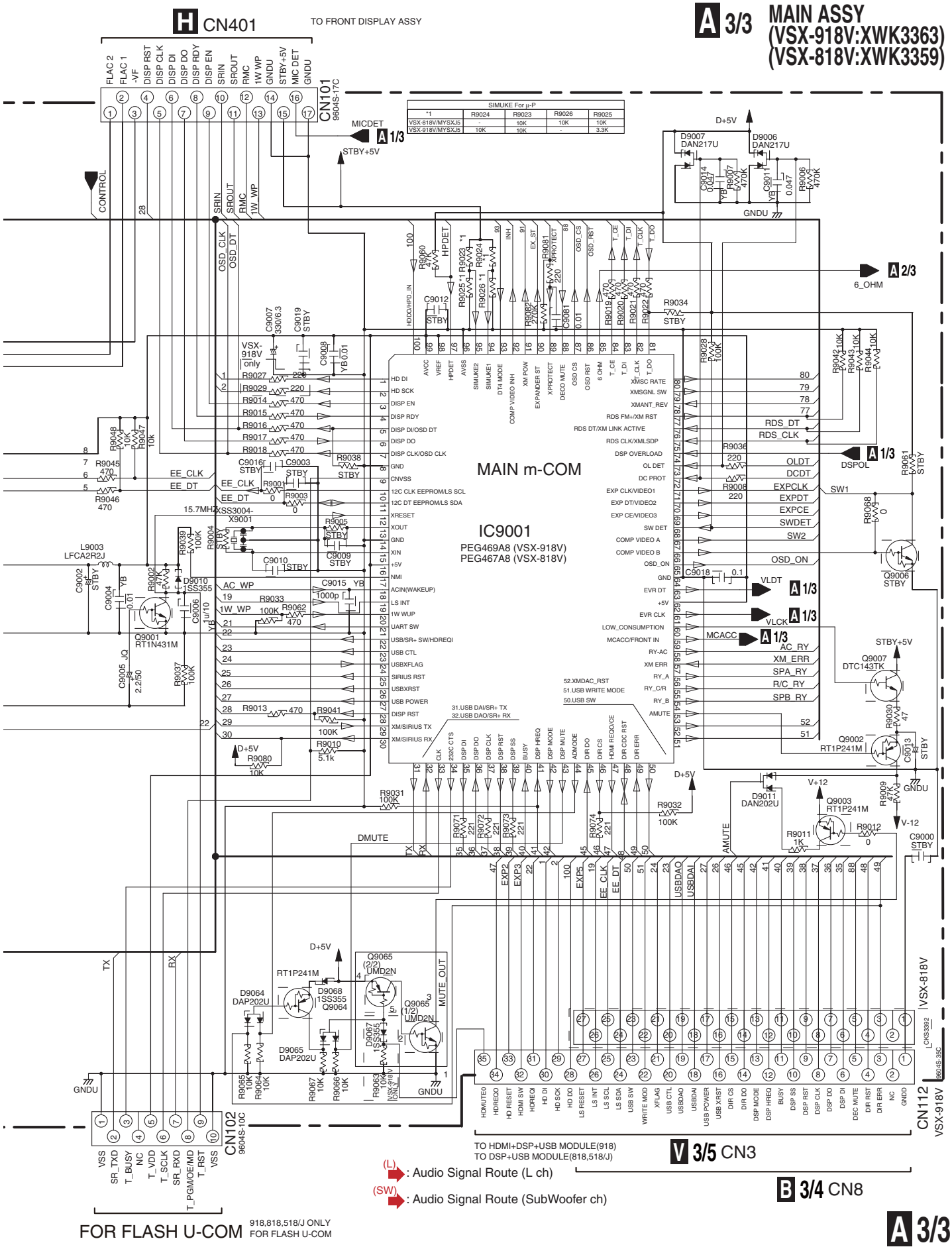
NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

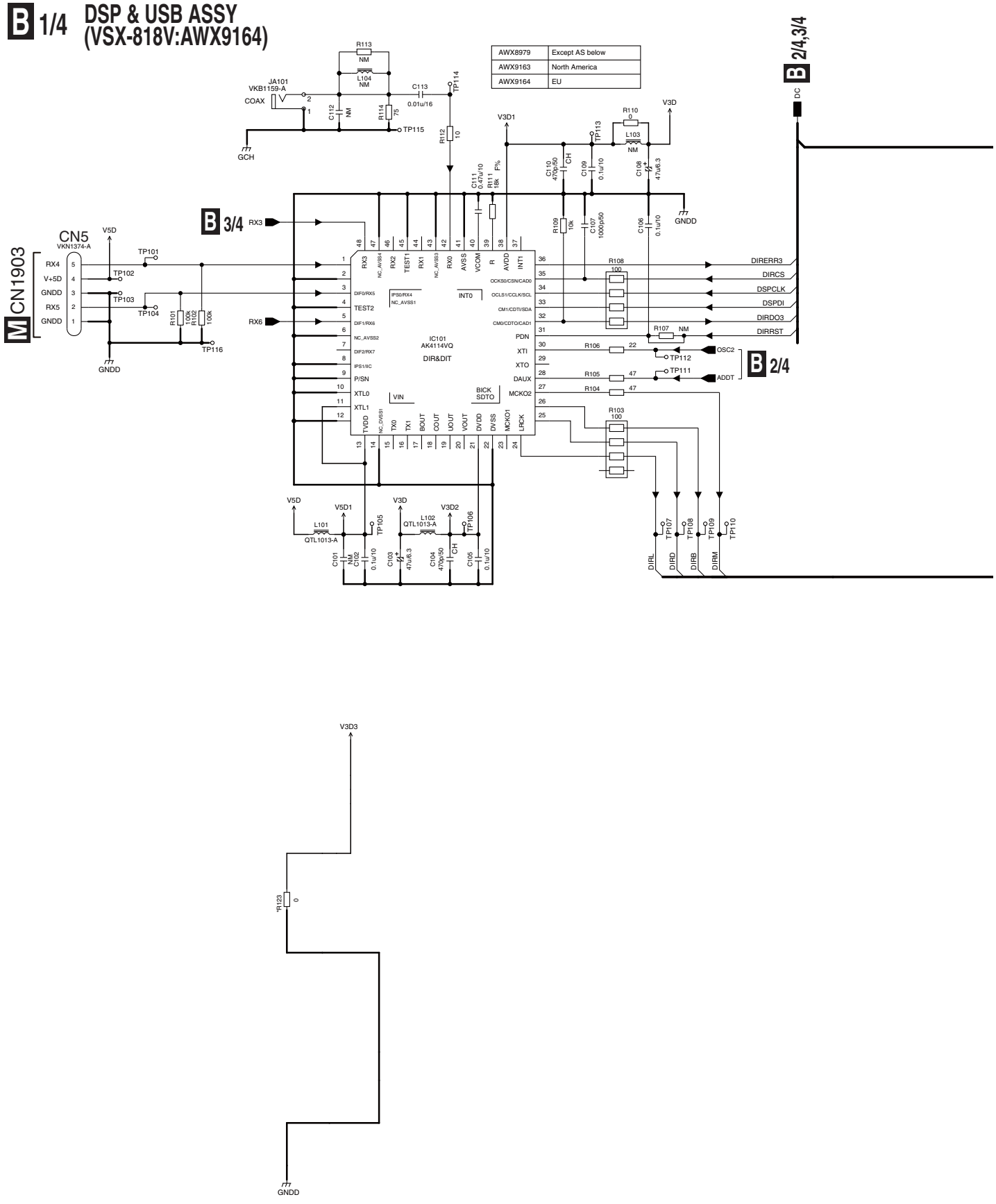
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

: AUDIO SIGNAL FLOW

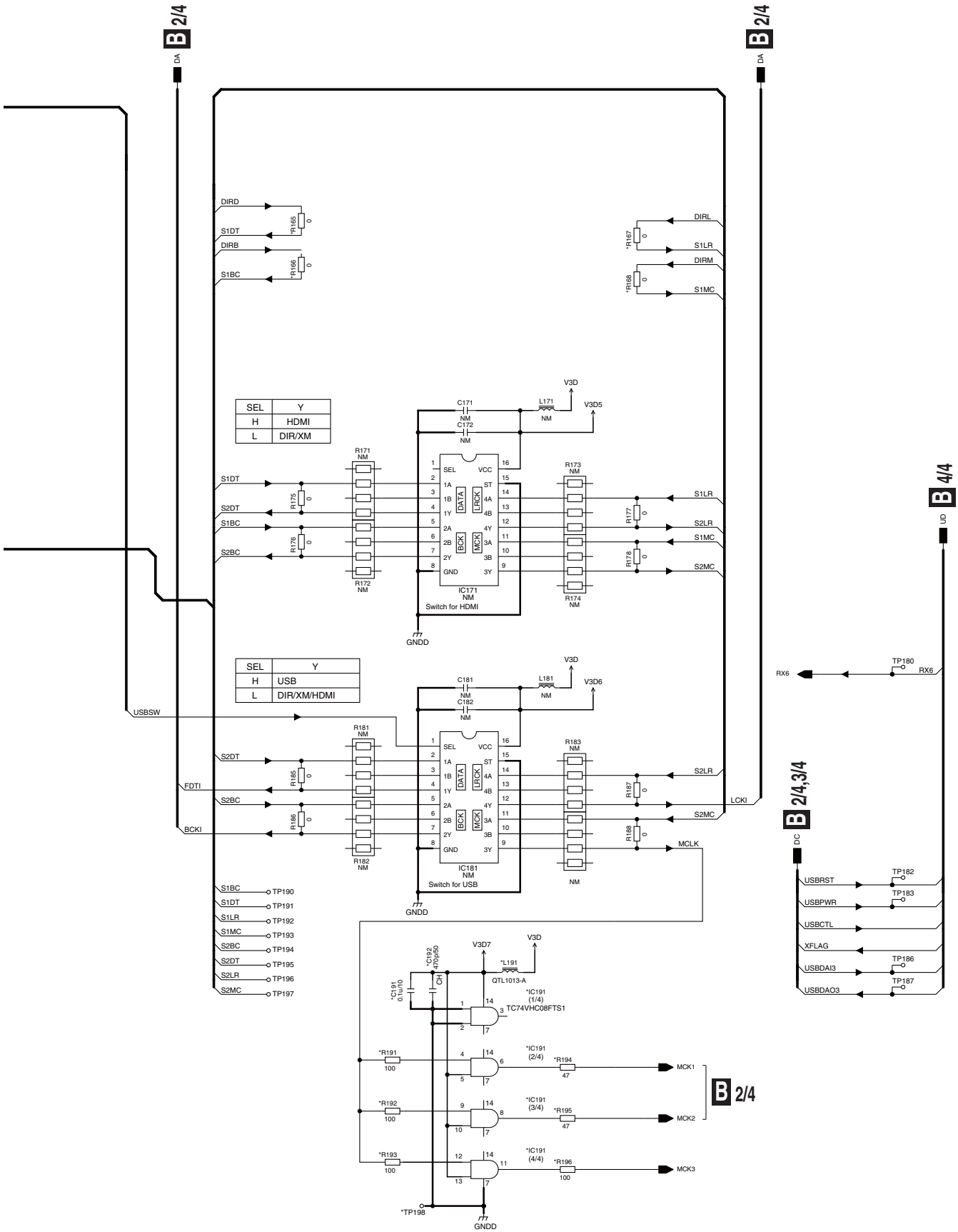
A 3/3


H CN401
TO FRONT DISPLAY ASSY
A 3/3 MAIN ASSY
(VSX-918V:XWK3363)
(VSX-818V:XWK3359)
CN101
9604S-17C
MICDET
A 1/3
STBY+5V
SIMUKE For μ-P
*1 R9024 R9023 R9026 R9025
VSX-818V/MYSXJ5 - 10K 10K 10K
VSX-918V/MYSXJ5 10K 10K - 3.3K
D+5V
D9007 DAN217U
D9006 DAN217U
GNDU
CONTROL
SRIN
SROUT
RMC
1W WP
OSD_CLK
OSD_DT
HPDET
6_OHM
A 2/3
C9012 STBY
R9034 STBY
C9007 330/6.3
C9019 STBY
C9008 YB 0.01
VSX-918V only
R9027 220
R9029 220
R9014 470
R9015 470
R9016 470
R9017 470
R9018 470
R9038 STBY
C9016 STBY
C9003 STBY
R9001 0
R9003 0
R9005 STBY
C9009 STBY
C9010 STBY
15.7MHz
XSS3004-X9001
R9004 STBY
R9039 100K
L9003 LFCA2R2J
C9002 STBY
C9004 YB 0.01
C9006 YB 1u/10
D9010 1SS355
R9002 47K
Q9001 RT1N431M
C9005 JQ 2.250
R9037 100K
AC_WP
1W_WP
R9033 100K
R9062 470
R9013 470
R9041 100K
R9010 5.1k
R9080 10K
R9031 100K
R9032 100K
MAIN m-COM
IC9001
PEG469A8 (VSX-918V)
PEG467A8 (VSX-818V)
HD DI
HD SCK
DISP EN
DISP RDY
DISP DI/OSD DT
DISP DO
DISP CLK/OSD CLK
GND
CNVSS
12C CLK EEPROM/LS SCL
12C DT EEPROM/LS SDA
XRESET
XOUT
GND
XIN
+5V
NMI
ACIN(WAKEUP)
LS INT
1W WUP
UART SW
USB/SR+ SW/HDREQI
USB CTL
USBXFLAG
SIRIUS RST
USBXRST
USB POWER
DISP RST
XM/SIRIUS TX
XM/SIRIUS RX
XMSC RATE
XMSGNL SW
XMANT_REV
RDS FM+/XM RST
RDS DT/XM LINK ACTIVE
RDS CLK/XMLSDP
DSP OVERLOAD
OL DET
DC PROT
EXP CLK/VIDEO1
EXP DT/VIDEO2
EXP CE/VIDEO3
SW DET
COMP VIDEO A
COMP VIDEO B
OSD_ON
GND
EVR DT
+5V
EVR CLK
LOW_CONSUMPTION
MCACC/FRONT IN
RY-AC
XM ERR
RY_A
RY_C/R
RY_B
AMUTE
31.USB DAI/SR+ TX
32.USB DAO/SR+ RX
52.XMDAC_RST
51.USB WRITE MODE
50.USB SW
RDS_DT
RDS_CLK
OLDT
DCDT
EXPCLK
EXPDT
EXPCE
SWDET
SW2
OSD_ON
VLDT
VLCK
MCACC
AC_RY
XM_ERR
SPA_RY
R/C_RY
SPB_RY
DSPOL
SW1
Q9006 STBY
Q9007 DTC143TK
Q9002 RT1P241M
C9013 STBY
GNDU
D9011 DAN202U
V+12
Q9003 RT1P241M
R9011 1K
R9012 0
V-12
C9000 STBY
R9009 47K
DMUTE
AMUTE
EE_CLK
EE_DT
TX
RX
D9064 DAP202U
RT1P241M
D9068 1SS355
Q9064
Q9065 (2/2) UMD2N
Q9065 (1/2) UMD2N
D9067 1SS355
D9065 DAP202U
MUTE_OUT
R9065 10K
R9064 10K
R9067 10K
R9066 10K
R9063 10K
CN112
VSX-818V
VSX-918V
CN102
9604S-10C
VSS
SR_TXD
T_BUSY
NC
T_VDD
T_SCLK
SR_RXD
T_PGM/OE/MD
T_RST
VSS
FOR FLASH U-COM
918,818,518/J ONLY
FOR FLASH U-COM
TO HDMI+DSP+USB MODULE(918)
TO DSP+USB MODULE(818,518/J)
V 3/5 CN3
B 3/4 CN8
(L) : Audio Signal Route (L ch)
(SW) : Audio Signal Route (SubWoofer ch)
A 3/3

10.4 DSP & USB ASSY (1/4)



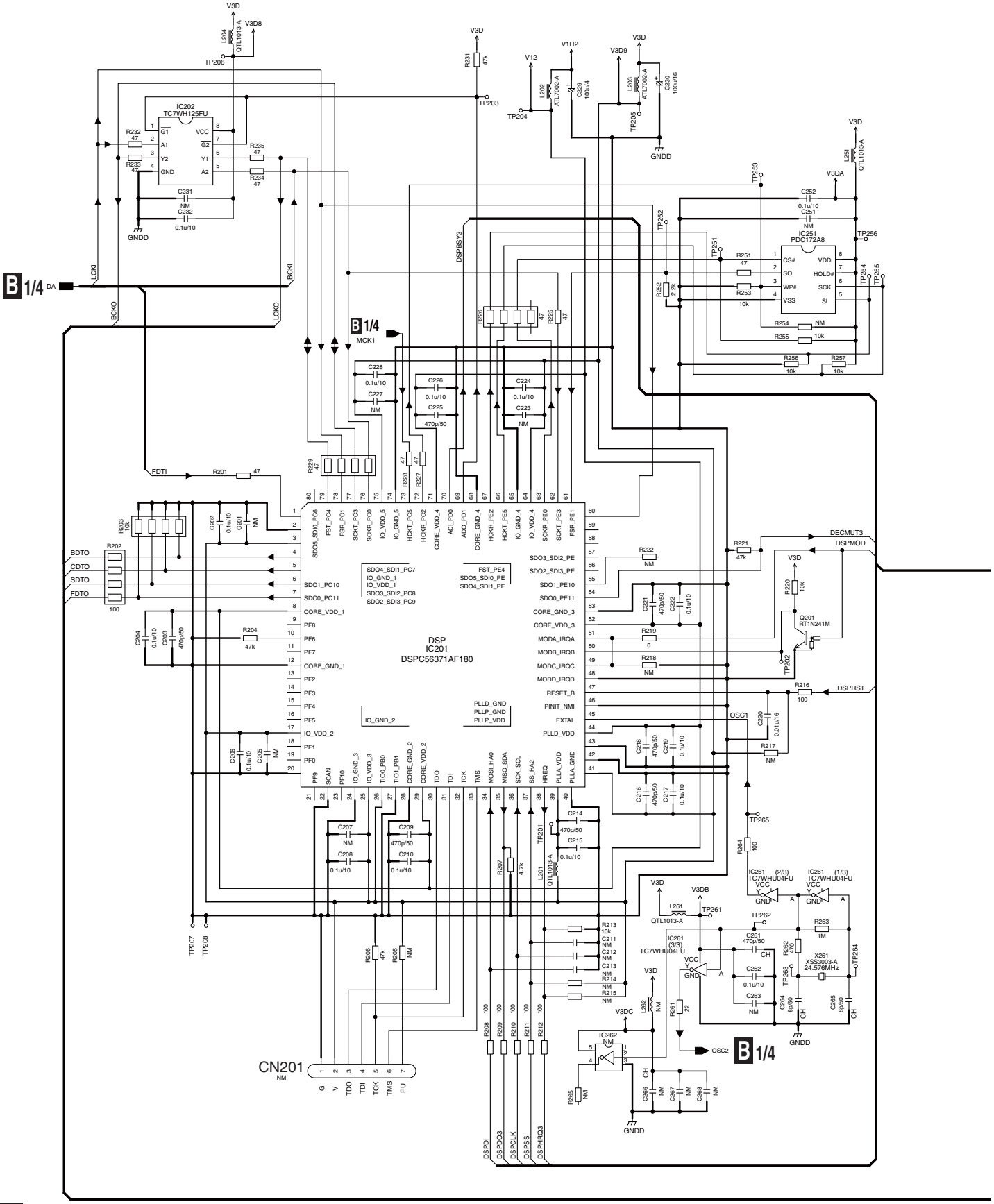
B 1/4

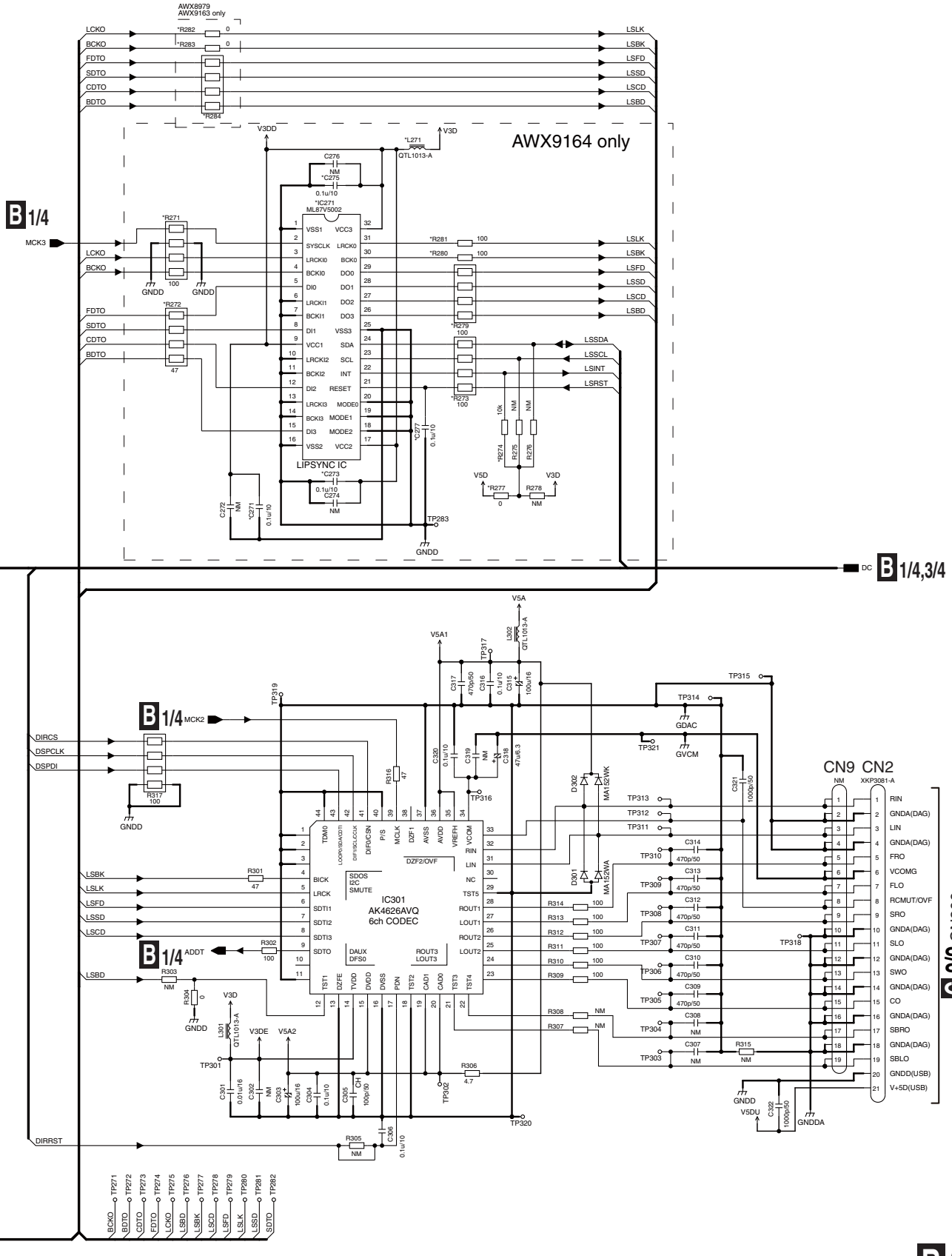

B 2/4
DA
B 2/4
DA
DIRD
S1DT
DIRB
S1BC
*R165 0
*R166 0
DIRL
S1LR
DIRM
S1MC
*R167 0
*R168 0
SEL Y
H HDMI
L DIR/XM
V3D
C171 NM
C172 NM
L171 NM
V3D5
R171 NM
R172 NM
R173 NM
R174 NM
R175 0
R176 0
R177 0
R178 0
IC171 NM
Switch for HDMI
SEL VCC
1A ST
1B DATA LRCK 4A
1Y 4B
2A 4Y
2B BCK MCK 3A
2Y 3B
GND 3Y
S1DT
S2DT
S1BC
S2BC
S1LR
S2LR
S1MC
S2MC
GNDD
SEL Y
H USB
L DIR/XM/HDMI
V3D
C181 NM
C182 NM
L181 NM
V3D6
R181 NM
R182 NM
R183 NM
R185 0
R186 0
R187 0
R188 0
IC181 NM
Switch for USB
USBSW
FDTI
BCKI
S2DT
S2BC
S2LR
S2MC
LCKI
MCLK
GNDD
S1BC TP190
S1DT TP191
S1LR TP192
S1MC TP193
S2BC TP194
S2DT TP195
S2LR TP196
S2MC TP197
B 4/4
UD
RX6
TP180
RX6
B 2/4,3/4
DC
USBRST
TP182
USBPWR
TP183
USBCTL
XFLAG
USBDAI3
TP186
USBDAO3
TP187
V3D7
V3D
*C192 470p/50
*L191
QTL1013-A
*C191 0.1u/10
CH
*IC191 (1/4)
TC74VHC08FTS1
*IC191 (2/4)
*IC191 (3/4)
*IC191 (4/4)
*R191 100
*R192 100
*R193 100
*R194 47
*R195 47
*R196 100
MCK1
MCK2
MCK3
B 2/4
*TP198
GNDD

B 1/4

10.5 DSP & USB ASSY (2/4)

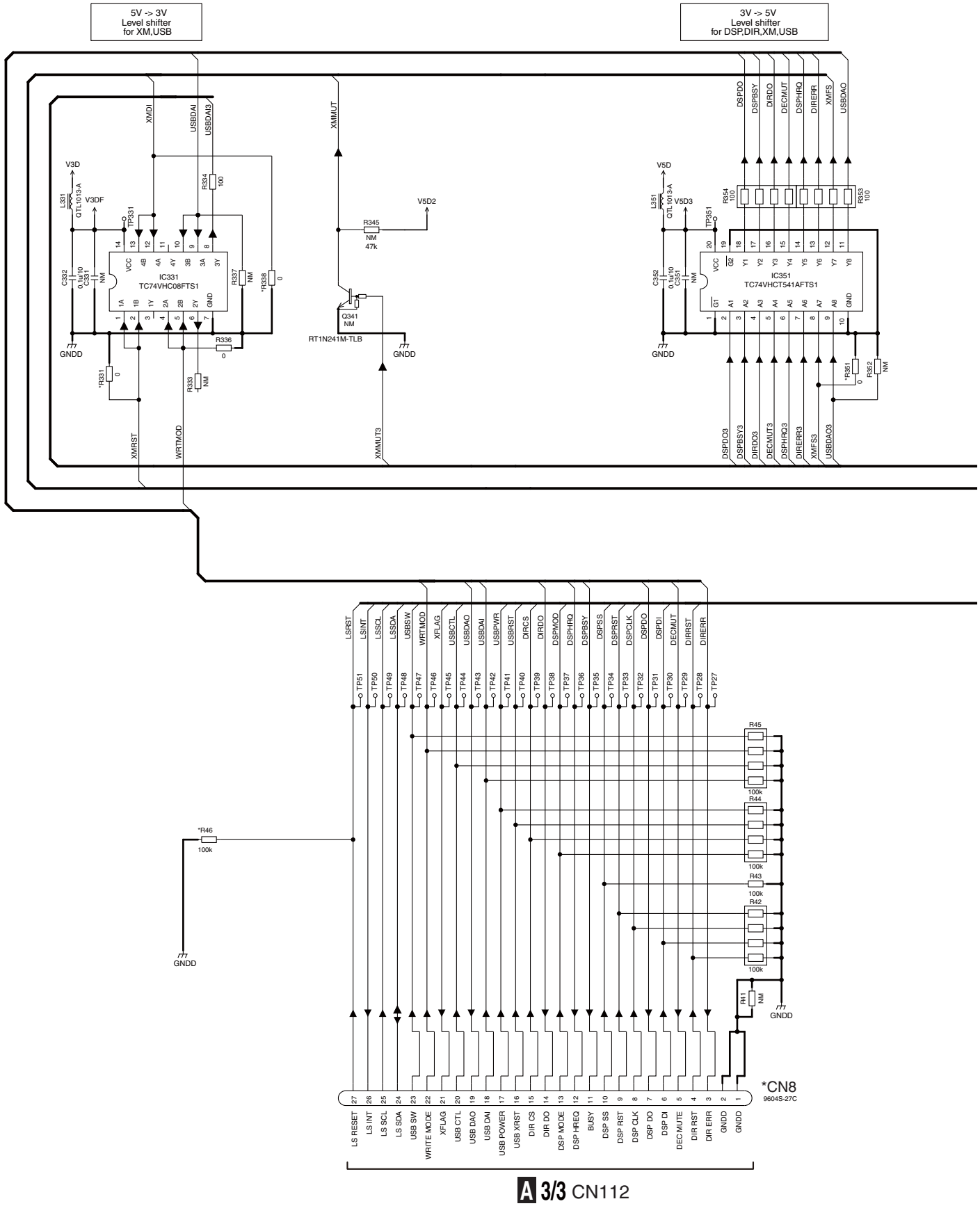
B 2/4 DSP & USB ASSY (VSX-818V:AWX9164)



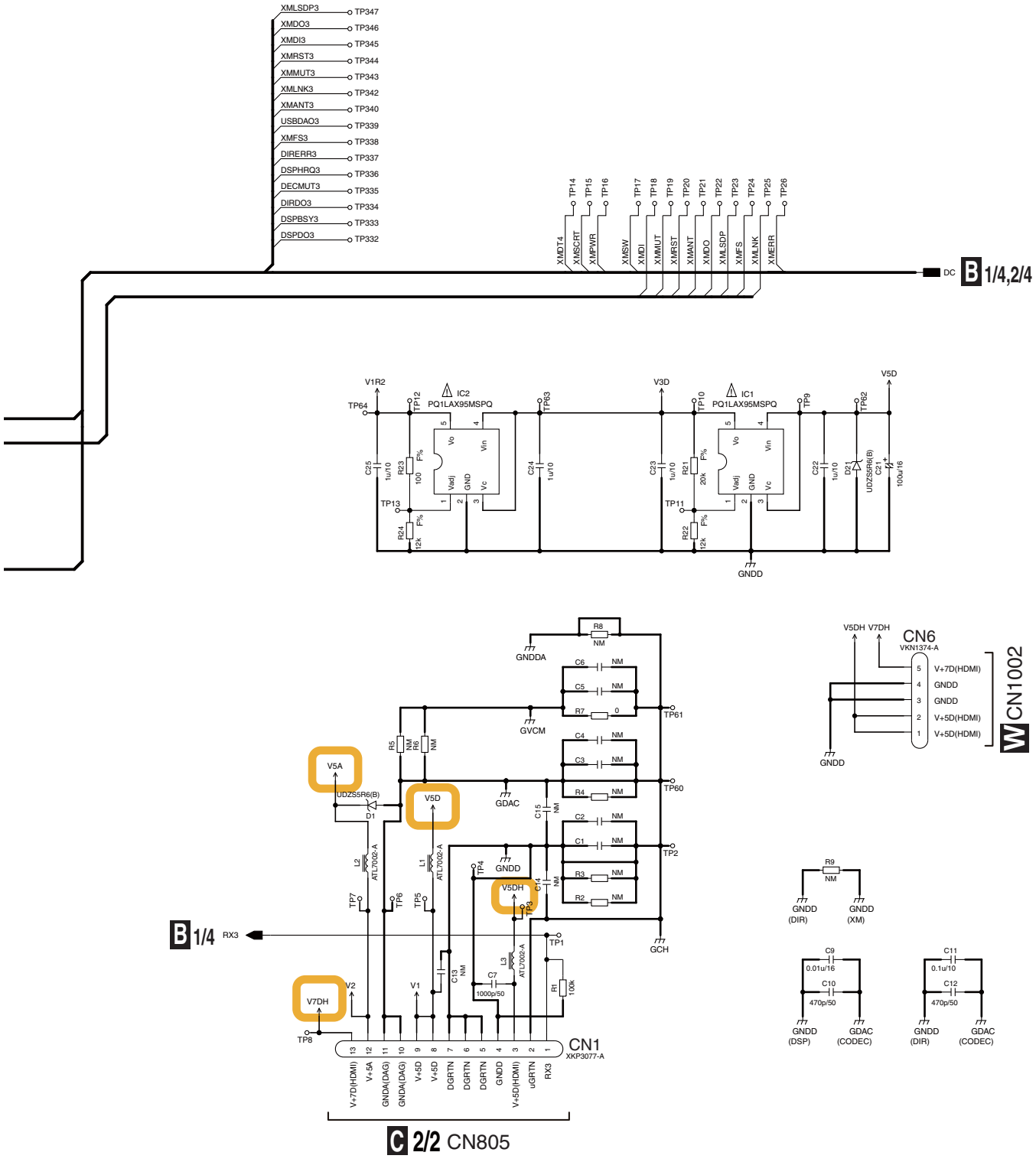

AWX8979
AWX9163 only
AWX9164 only
LIPSYNC IC
IC301
AK4626AVQ
6ch CODEC
CN9 CN2
XKP3081-A
C 2/2 CN806
B 1/4
B 1/4,3/4
B 1/4 MCK2
B 1/4 ADDT
B 2/4
DC
LCKO
BCKO
FDTO
SDTO
CDTO
BDTO
MCK3
LSLK
LSBK
LSFD
LSSD
LSCD
LSBD
LSSDA
LSSCL
LSINT
LSRST
DIRCS
DSPCLK
DSPDI
DIRRST
GNDD
GNDA
GNDDA
V3DD
V3D
V5A
V5A1
V5A2
V3DE
V5D
V5DU
GDAC
GVCM
TP283
TP301
TP302
TP303
TP304
TP305
TP306
TP307
TP308
TP309
TP310
TP311
TP312
TP313
TP314
TP315
TP316
TP317
TP318
TP319
TP320
TP321
RIN
GNDA(DAG)
LIN
FRO
VCOMG
FLO
RCMUT/OVF
SRO
SLO
SWO
CO
SBRO
SBLO
GNDD(USB)
V+5D(USB)

10.6 DSP & USB ASSY (3/4)

B 3/4 DSP & USB ASSY (VSX-818V:AWX9164)

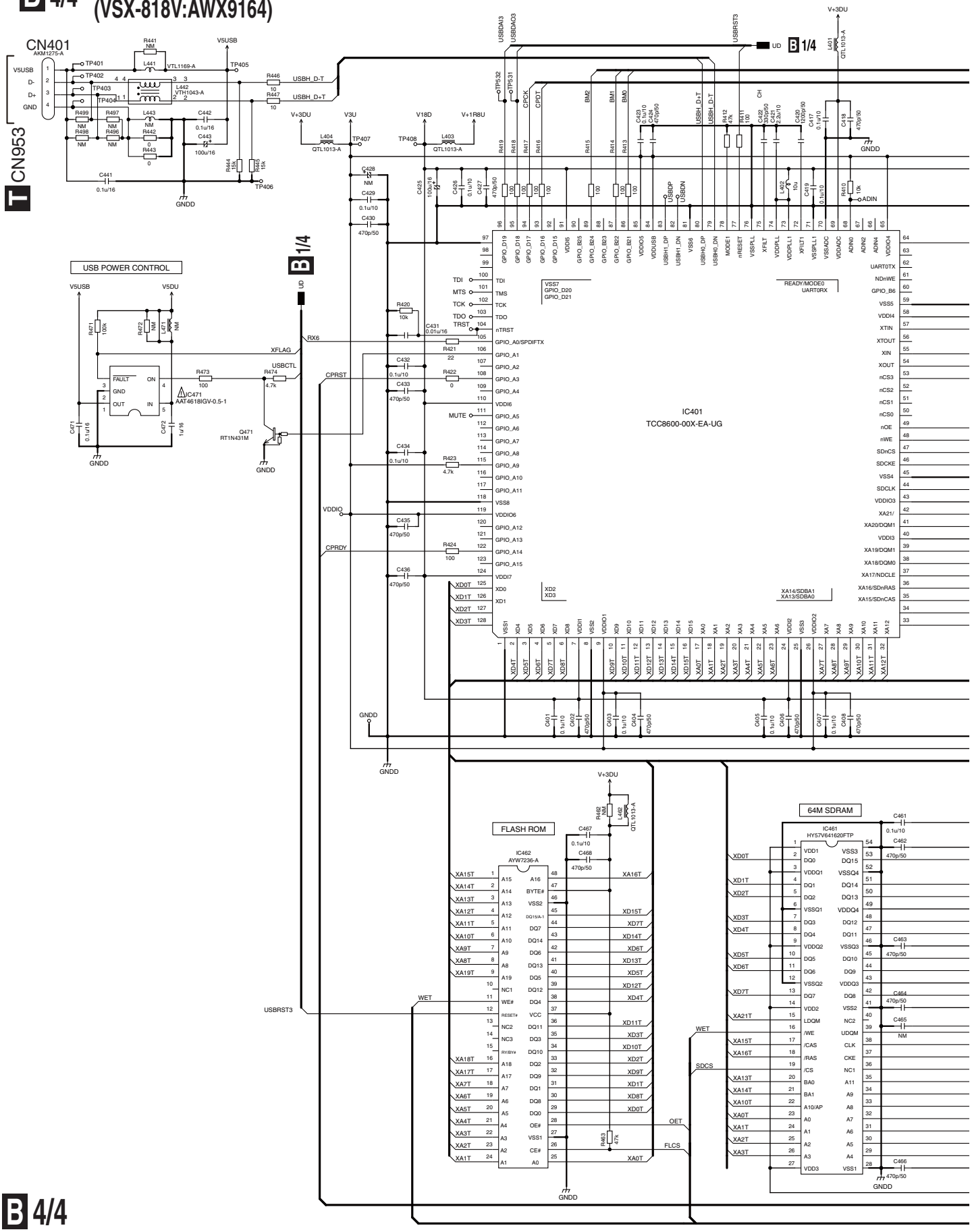


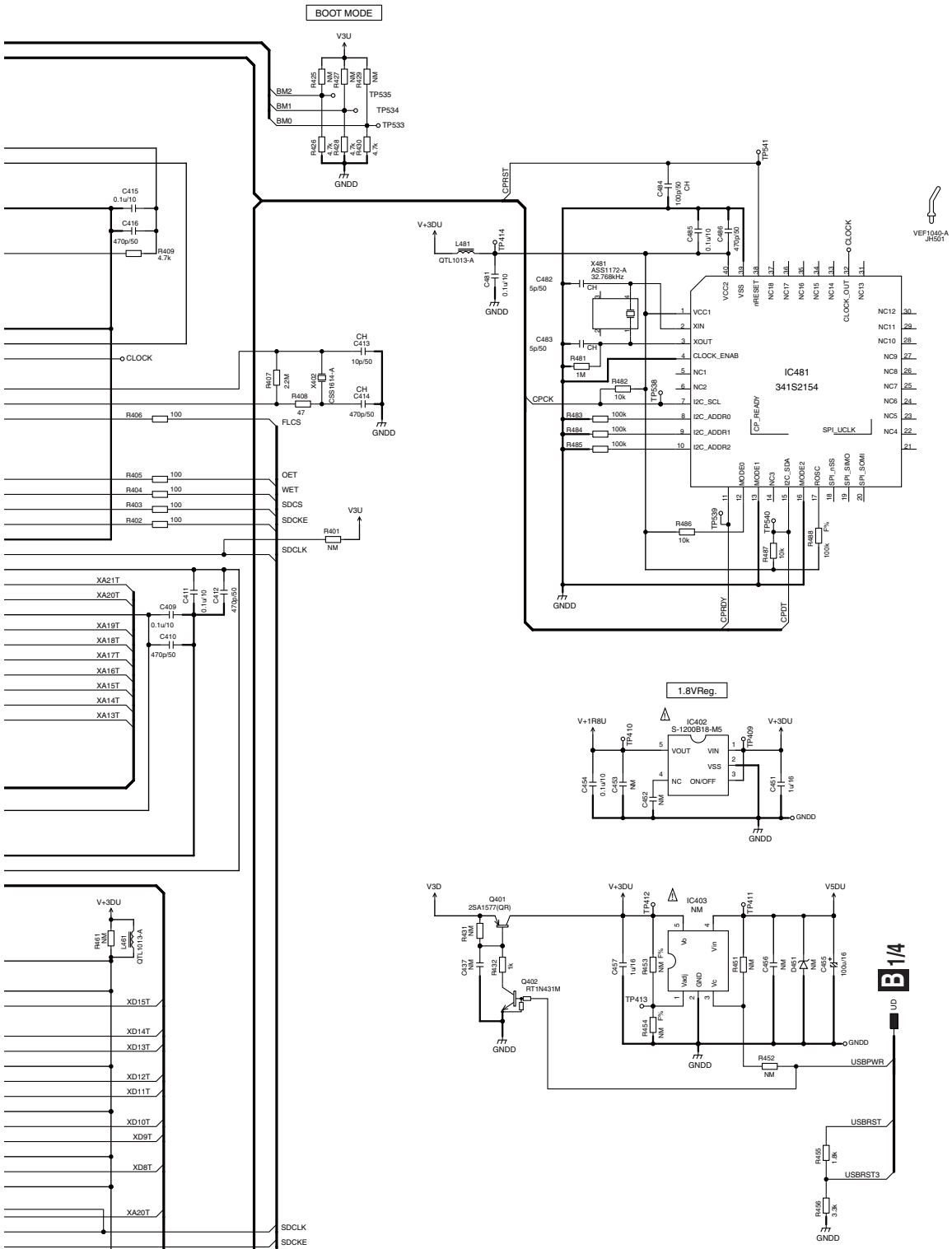
B 3/4


XMLSDP3 TP347
XMDO3 TP346
XMDI3 TP345
XMRST3 TP344
XMMUT3 TP343
XMLNK3 TP342
XMANT3 TP340
USBDAO3 TP339
XMFS3 TP338
DIRERR3 TP337
DSPHRQ3 TP336
DECMUT3 TP335
DIRDO3 TP334
DSPBSY3 TP333
DSPDO3 TP332
TP14 XMDT4
TP15 XMSCRT
TP16 XMPWR
TP17 XMSW
TP18 XMDI
TP19 XMMUT
TP20 XMRST
TP21 XMANT
TP22 XMDO
TP23 XMLSDP
TP24 XMFS
TP25 XMLNK
TP26 XMERR
DC
B 1/4,2/4
V1R2
TP64
TP12
IC2
PQ1LAX95MSPQ
TP63
V3D
TP10
IC1
PQ1LAX95MSPQ
TP9
TP62
V5D
C25 1u/10
R23 100 1%
C24 1u/10
C23 1u/10
R21 20k 1%
C22 1u/10
D21 UDZS5R6(B)
C21 100u/16
TP13
R24 12k 1%
TP11
R22 12k 1%
GNDD
R8 NM
GNDDA
C6 NM
C5 NM
R7 0
TP61
GVCM
C4 NM
C3 NM
R4 NM
TP60
GDAC
C2 NM
C1 NM
R3 NM
TP2
R2 NM
GCH
R5 NM
R6 NM
V5A
UDZS5R6(B)
D1
V5D
L2 ATL7002-A
L1 ATL7002-A
C15 NM
TP4
GNDD
V5DH
C14 NM
TP3
TP7
TP6
TP5
B 1/4 RX3
TP1
L3 ATL7002-A
C13 NM
C7 1000p/50
Rt 100k
V7DH
TP8
V2
V1
CN1
XKP3077-A
V+7D(HDMI)
V+5A
GNDA(DAG)
GNDA(DAG)
V+5D
V+5D
DGRTN
DGRTN
DGRTN
GNDD
V+5D(HDMI)
uGRTN
RX3
C 2/2 CN805
V5DH V7DH
CN6
VKN1374-A
V+7D(HDMI)
GNDD
GNDD
V+5D(HDMI)
V+5D(HDMI)
GNDD
W CN1002
R9 NM
GNDD (DIR)
GNDD (XM)
C9 0.01u/16
C10 470p/50
GNDD (DSP)
GDAC (CODEC)
C11 0.1u/10
C12 470p/50
GNDD (DIR)
GDAC (CODEC)

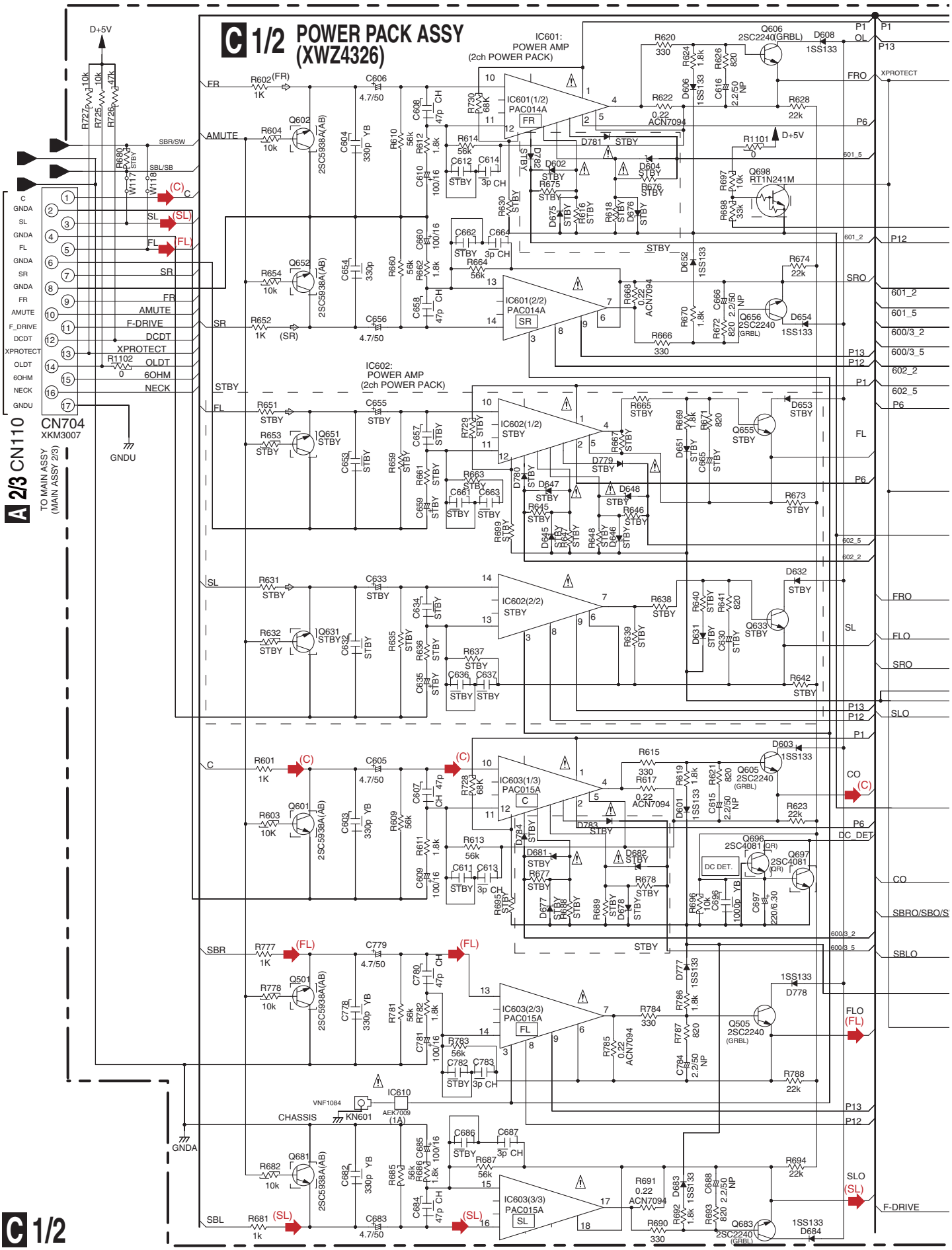
B 3/4

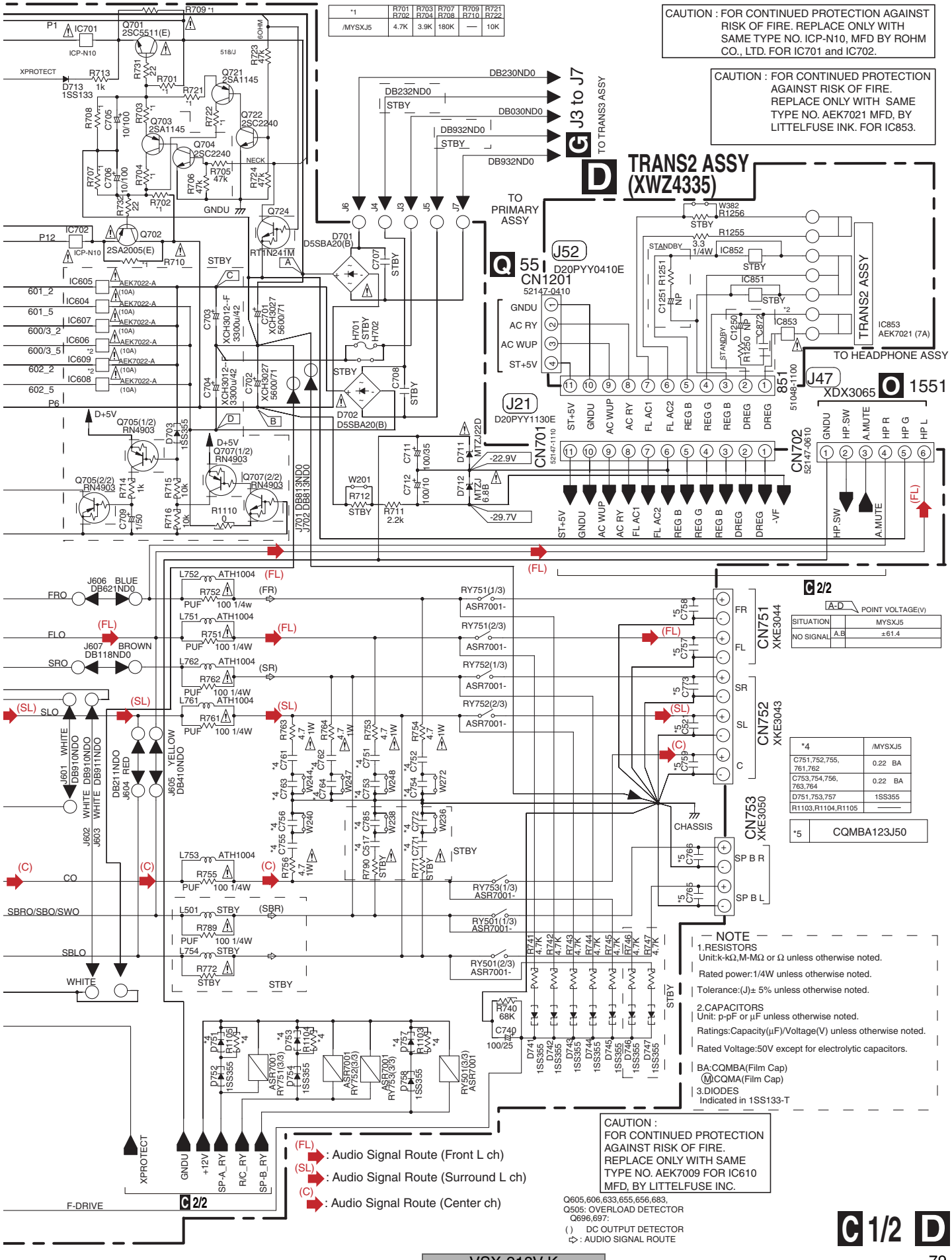
10.7 DSP & USB ASSY (4/4)




BOOT MODE
V3U
BM2
BM1
BM0
TP535
TP534
TP533
GNDD
CPRST
TP541
V+3DU
L481
QTL1013-A
TP414
X481
ASS1172-A
32.768kHz
IC481
341S2154
CLOCK
VEF1040-A
JH501
CPCK
TP538
CP_READY
SPI_UCLK
TP539
TP540
CPRDY
CPDT
1.8VReg.
V+1R8U
IC402
S-1200B18-M5
V+3DU
V3D
Q401
2SA1577(QR)
IC403
NM
V5DU
Q402
RT1N431M
TP413
USBPWR
USBRST
USBRST3
FLCS
OET
WET
SDCS
SDCKE
SDCLK
XA21T
XA20T
XA19T
XA18T
XA17T
XA16T
XA15T
XA14T
XA13T
XD15T
XD14T
XD13T
XD12T
XD11T
XD10T
XD9T
XD8T
XA12T
XA11T
XA9T
XA8T
XA7T
XA6T
XA5T
XA4T
B 1/4

10.8 POWER PACK (1/2) and TRANS2 ASSYS




TRANS2 ASSY (XWZ4335)
TO PRIMARY ASSY
J3 to J7
TO TRANS3 ASSY
TO HEADPHONE ASSY
TRANS2 ASSY
CN1201
CN701
CN702
CN751 XKE3044
CN752 XKE3043
CN753 XKE3050
IC853 AEK7021 (7A)
XDX3065
CHASSIS
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC701 and IC702.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7021 MFD, BY LITTELFUSE INK. FOR IC853.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7009 FOR IC610 MFD, BY LITTELFUSE INC.
NOTE
1.RESISTORS
Unit:k-kΩ,M-MΩ or Ω unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J)± 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings:Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
BA:CQMBA(Film Cap)
MCQMA(Film Cap)
3.DIODES
Indicated in 1SS133-T
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
Q605,606,633,655,656,683,
Q505: OVERLOAD DETECTOR
Q696,697:
( ) DC OUTPUT DETECTOR
: AUDIO SIGNAL ROUTE
C 1/2 D
C 2/2

*1	R701 R702	R703 R704	R707 R708	R709 R710	R721 R722
/MYSXJ5	4.7K	3.9K	180K	—	10K

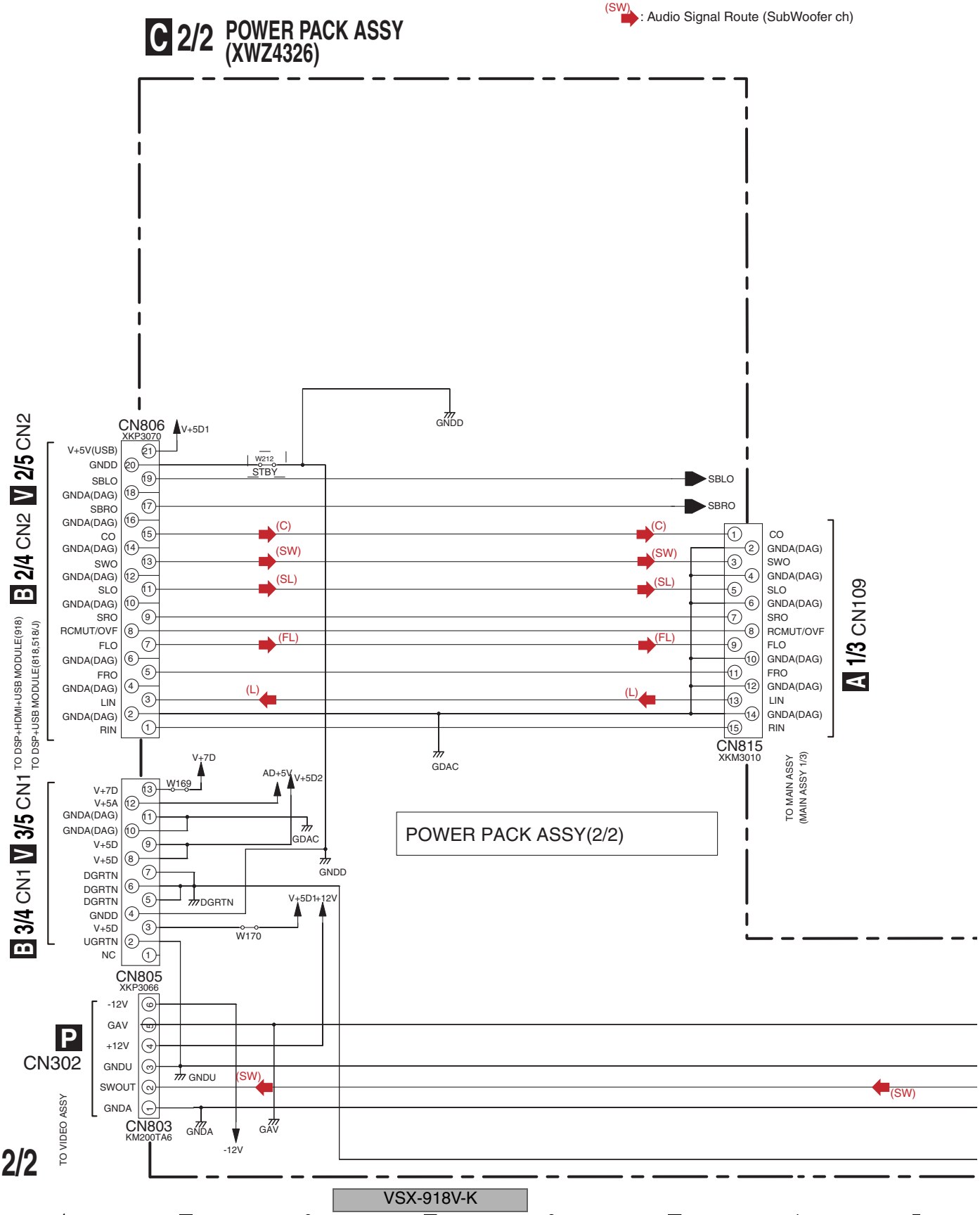
A-D	POINT VOLTAGE(V)
SITUATION	MYSXJ5
NO SIGNAL A.B	±61.4

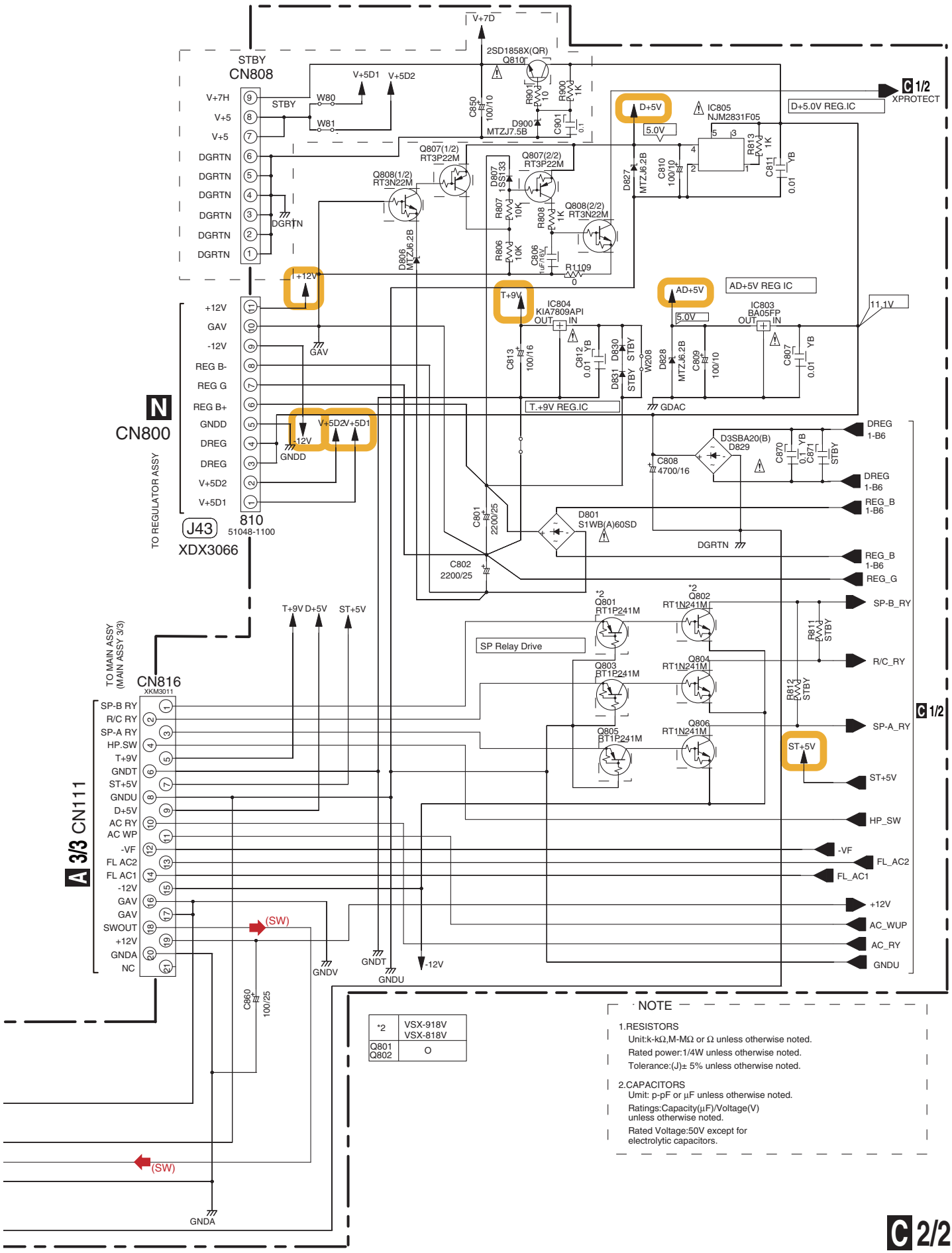
*4	/MYSXJ5
C751,752,755, 761,762	0.22 BA
C753,754,756, 763,764	0.22 BA
D751,753,757	1SS355
R1103,R1104,R1105	——

*5	CQMBA123J50

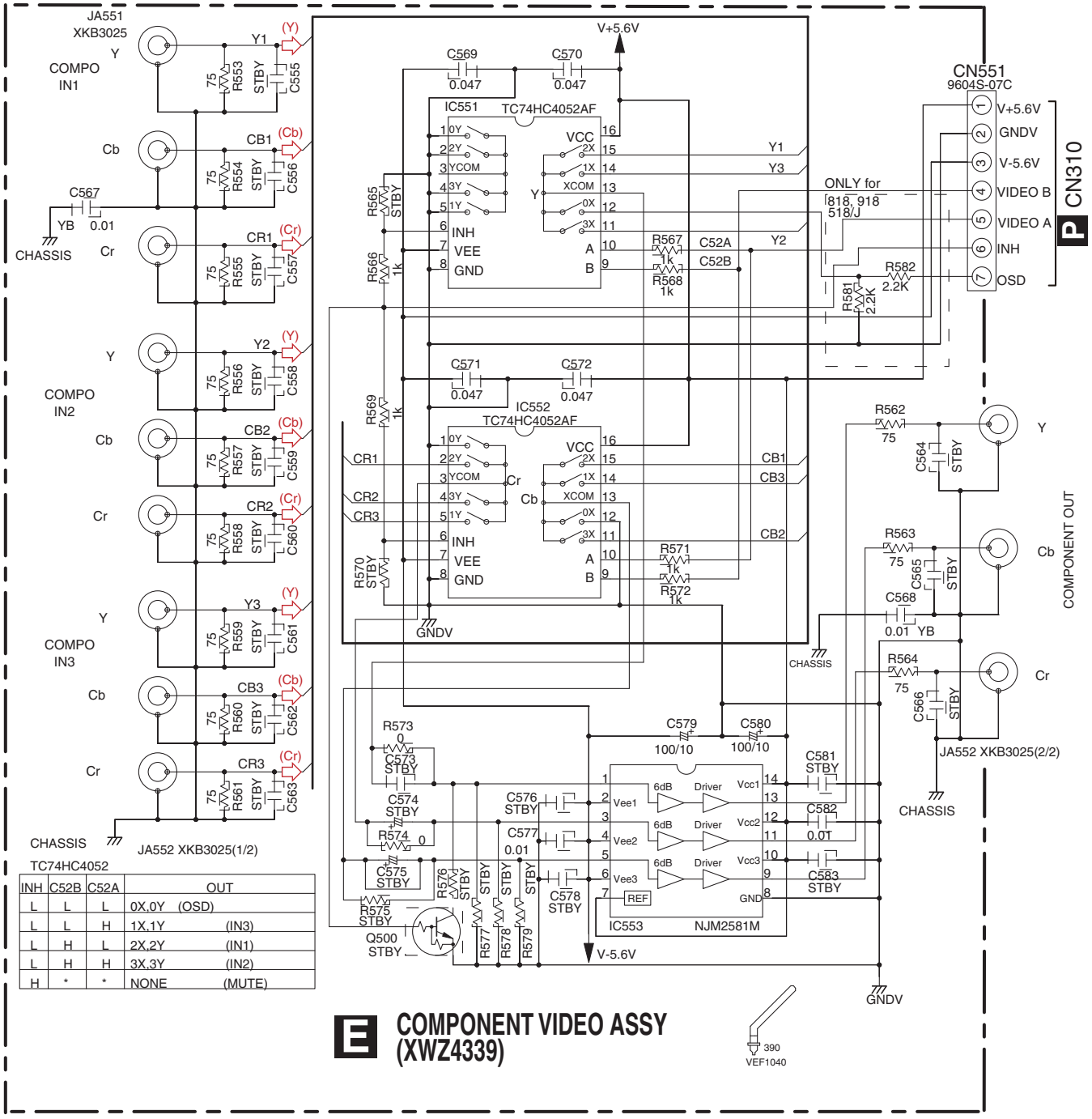
10.9 POWER PACK ASSY (2/2)

(L) : Audio Signal Route (L ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SW) : Audio Signal Route (SubWoofer ch)




STBY
CN808
V+7H
V+5
V+5
DGRTN
DGRTN
DGRTN
DGRTN
DGRTN
DGRTN
V+7D
2SD1858X(QR)
Q810
V+5D1
V+5D2
W80
W81
STBY
C850 100/10
R901 10
R900 1K
D900 MTZJ7.5B
C901 0.1
D+5V
5.0V
IC805 NJM2831F05
D+5.0V REG.IC
C 1/2
XPROTECT
Q807(1/2) RT3P22M
Q807(2/2) RT3P22M
Q808(1/2) RT3N22M
Q808(2/2) RT3N22M
D807 1SS133
R807 10K
R808 1K
R806 10K
C806 1uF/16V
R1109 0
D806 MTZJ6.2B
D827 MTZJ6.2B
C810 100/10
R813 1K
C811 0.01 YB
+12V
T+9V
AD+5V
AD+5V REG IC
IC804 KIA7809API
IC803 BA05FP
11.1V
+12V
GAV
-12V
REG B-
REG G
REG B+
GNDD
DREG
DREG
V+5D2
V+5D1
N
CN800
TO REGULATOR ASSY
J43
810
51048-1100
XDX3066
C813 100/16
C812 0.01 YB
D830 STBY
D831 STBY
W208
D828 MTZJ6.2B
C809 100/10
C807 0.01 YB
T.+9V REG.IC
GDAC
D3SBA20(B) D829
C808 4700/16
C870 0.1 YB
C871 STBY
DREG 1-B6
DREG 1-B6
REG_B 1-B6
C801 2200/25
D801 S1WB(A)60SD
C802 2200/25
DGRTN
REG_B 1-B6
REG_G
T+9V D+5V ST+5V
*2 Q801 RT1P241M
*2 Q802 RT1N241M
SP-B_RY
SP Relay Drive
R811 STBY
R/C_RY
Q803 RT1P241M
Q804 RT1N241M
R812 STBY
Q805 RT1P241M
Q806 RT1N241M
SP-A_RY
ST+5V
ST+5V
HP_SW
-VF
FL_AC2
FL_AC1
+12V
AC_WUP
AC_RY
GNDU
C 1/2
TO MAIN ASSY (MAIN ASSY 3/3)
CN816
XKM3011
A 3/3 CN111
SP-B RY
R/C RY
SP-A RY
HP.SW
T+9V
GNDT
ST+5V
GNDU
D+5V
AC RY
AC WP
-VF
FL AC2
FL AC1
-12V
GAV
GAV
SWOUT
+12V
GNDA
NC
(SW)
GNDV
GNDT
GNDU
-12V
C860 100/25
(SW)
GNDA
*2
VSX-918V
VSX-818V
Q801
Q802
O
NOTE
1.RESISTORS
Unit:k-kΩ,M-MΩ or Ω unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J)± 5% unless otherwise noted.
2.CAPACITORS
Umit: p-pF or µF unless otherwise noted.
Ratings:Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
C 2/2

10.10 COMPONENT VIDEO, 5.1CH INPUT and TRANS3 ASSYS



TC74HC4052

INH	C52B	C52A	OUT
L	L	L	0X,0Y (OSD)
L	L	H	1X,1Y (IN3)
L	H	L	2X,2Y (IN1)
L	H	H	3X,3Y (IN2)
H	*	*	NONE (MUTE)

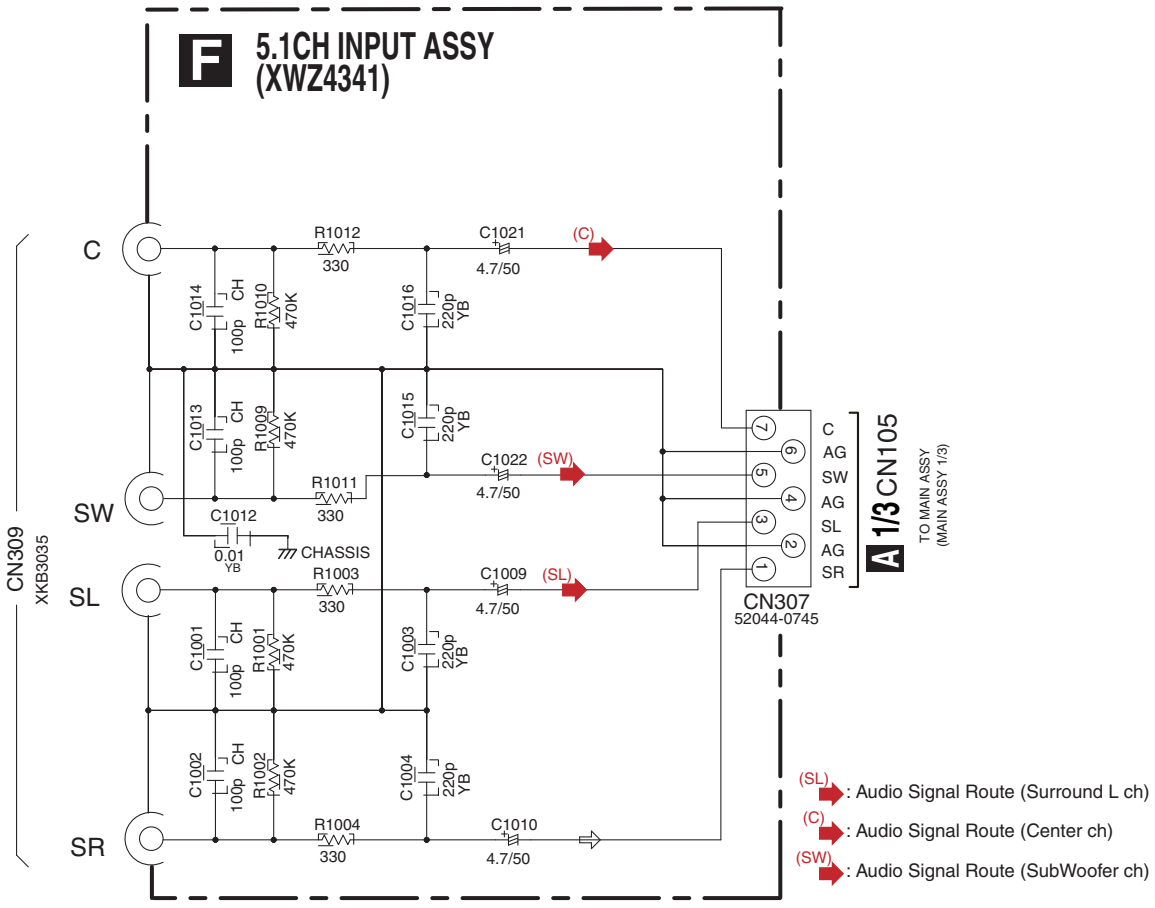
E COMPONENT VIDEO ASSY (XWZ4339)

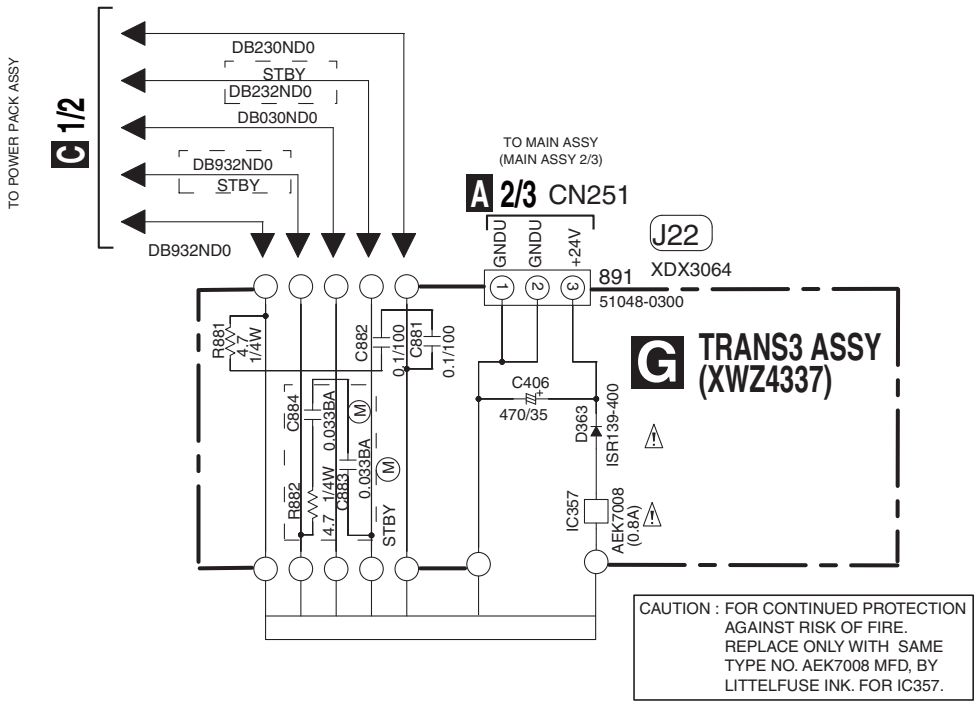
(Y) : Video Signal Route (Component Y ch)
(Cb) : Video Signal Route (Component Cb ch)
(Cr) : Video Signal Route (Component Cr ch)

NOTE

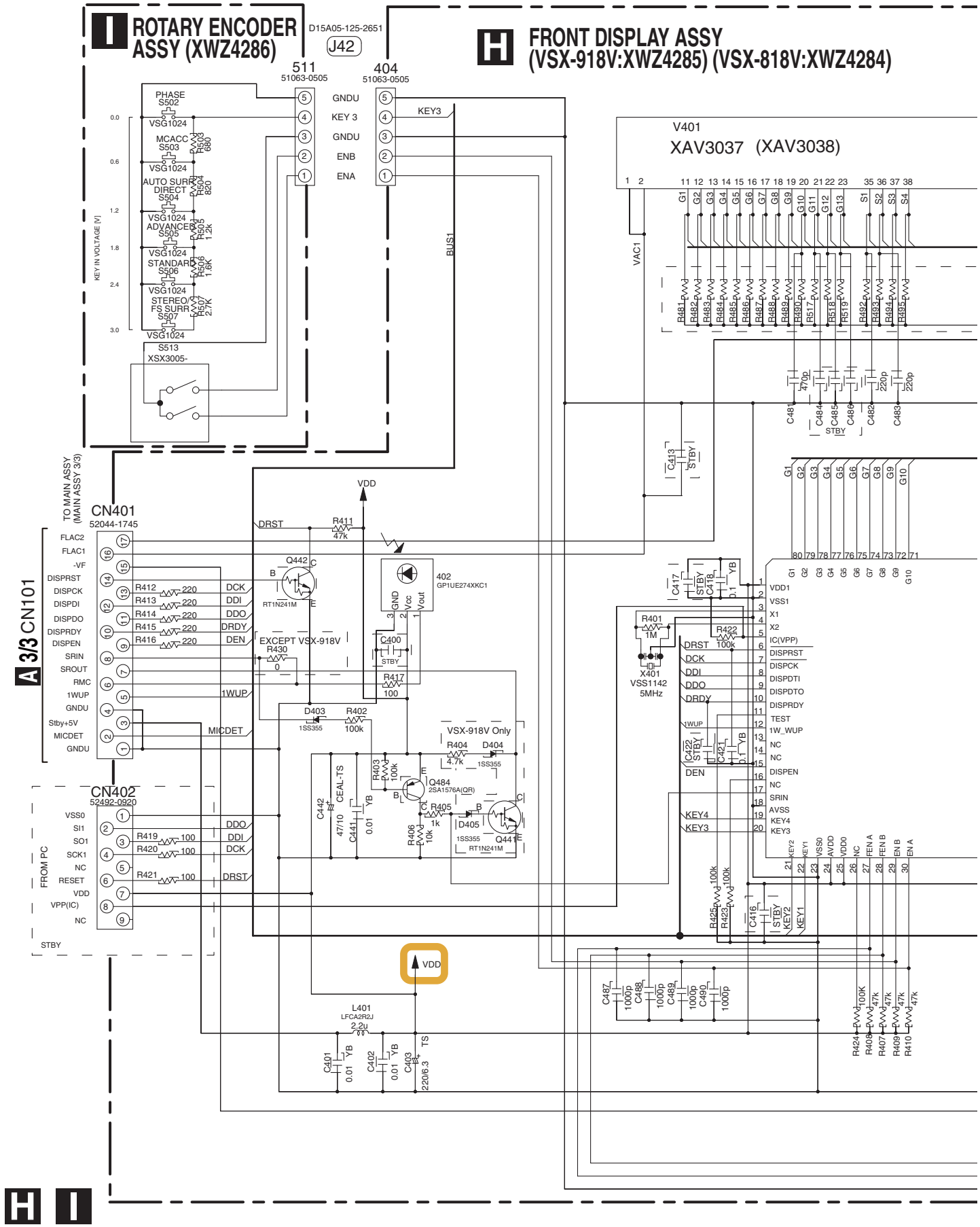
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

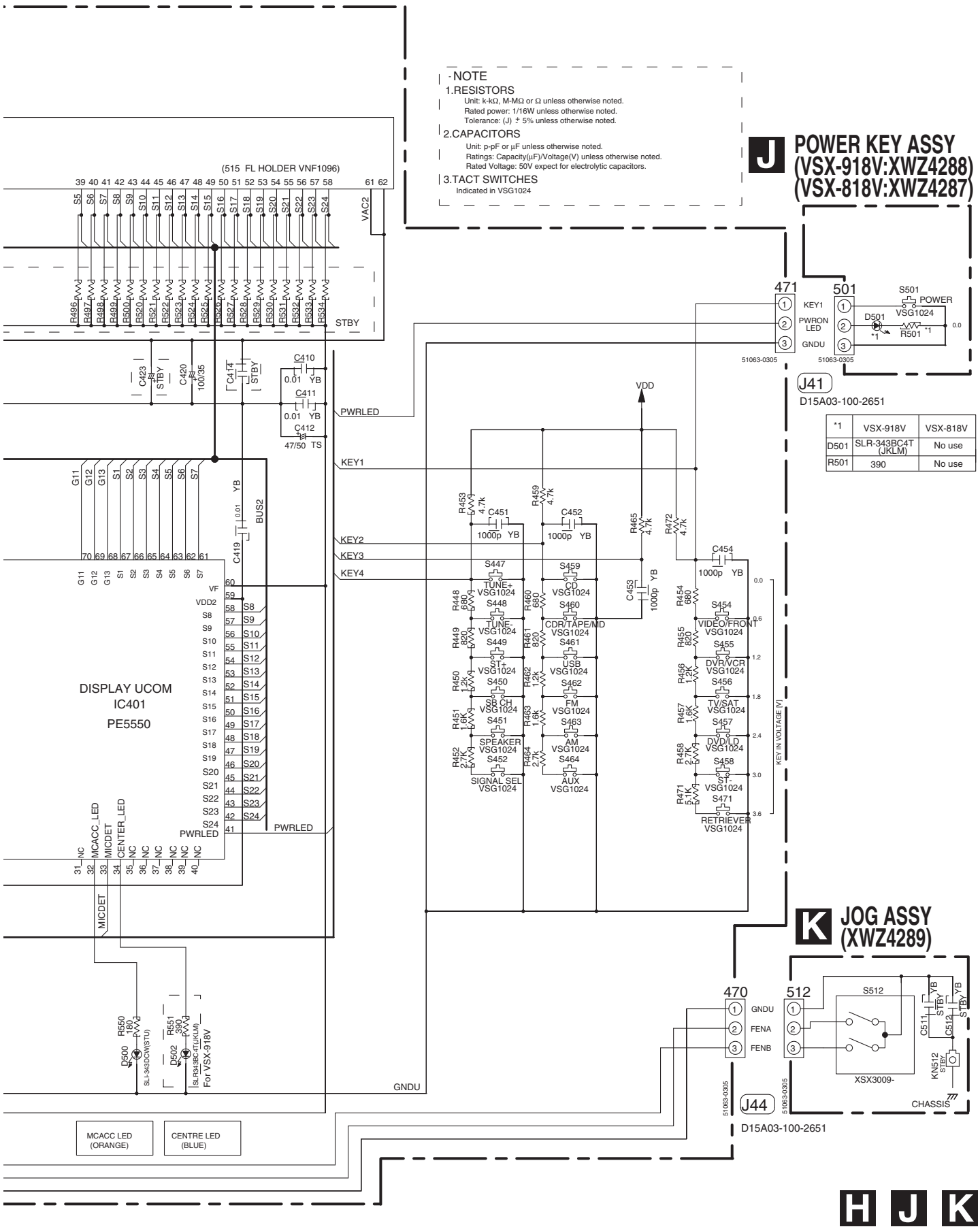
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.


F 5.1CH INPUT ASSY
(XWZ4341)
CN309
XKB3035
C
SW
SL
SR
R1012
330
C1021
4.7/50
(C)
C1014
100p CH
R1010
470K
C1016
220p YB
C1013
100p CH
R1009
470K
C1015
220p YB
C1022
4.7/50
(SW)
R1011
330
C1012
0.01 YB
CHASSIS
R1003
330
C1009
4.7/50
(SL)
C1001
100p CH
R1001
470K
C1003
220p YB
C1002
100p CH
R1002
470K
C1004
220p YB
R1004
330
C1010
4.7/50
CN307
52044-0745
C
AG
SW
AG
SL
AG
SR
A 1/3 CN105
TO MAIN ASSY
(MAIN ASSY 1/3)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SW) : Audio Signal Route (SubWoofer ch)

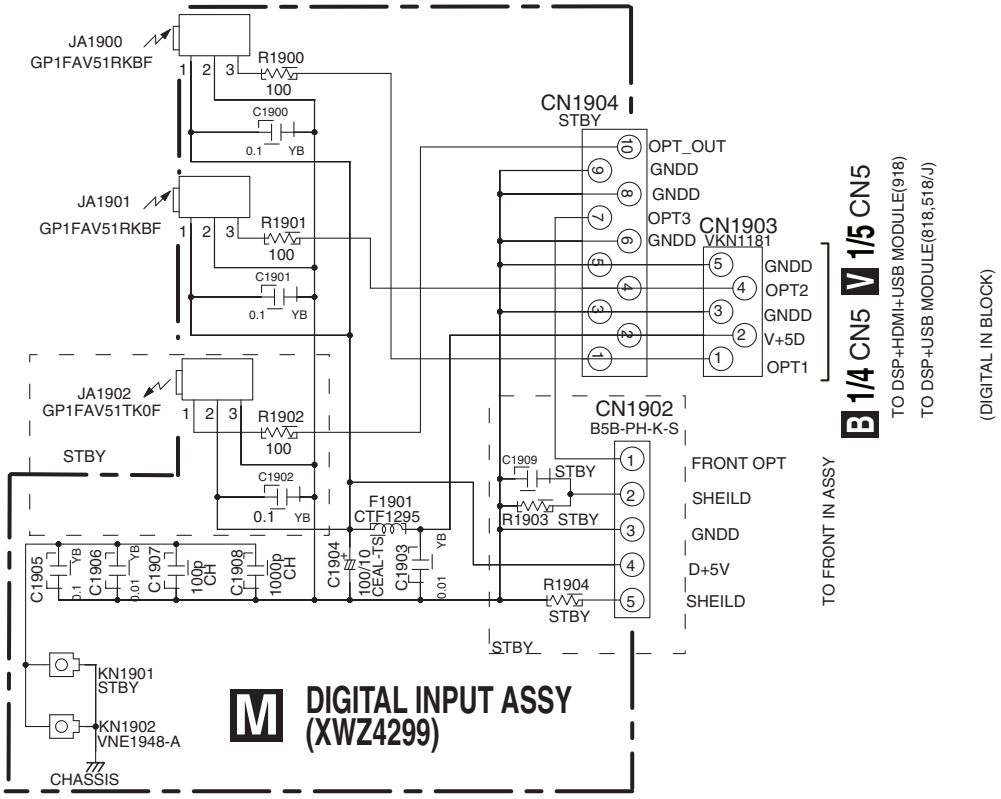

TO POWER PACK ASSY
C 1/2
DB230ND0
STBY
DB232ND0
DB030ND0
DB932ND0
STBY
DB932ND0
TO MAIN ASSY
(MAIN ASSY 2/3)
A 2/3 CN251
GNDU
GNDU
+24V
J22
XDX3064
891
51048-0300
R881 4.7 1/4W
C882 0.1/100
C881 0.1/100
C406 470/35
D363 ISR139-400
C884 0.033BA
R882 4.7 1/4W
C883 0.033BA
STBY
IC357 AEK7008 (0.8A)
G TRANS3 ASSY
(XWZ4337)
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7008 MFD, BY LITTELFUSE INK. FOR IC357.

10.11 FRONT DISPLAY, ROTARY ENCODER, POWER KEY and JOG ASSYS




NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
3.TACT SWITCHES
Indicated in VSG1024
J POWER KEY ASSY (VSX-918V:XWZ4288) (VSX-818V:XWZ4287)
(515 FL HOLDER VNF1096)
DISPLAY UCOM
IC401
PE5550
J41
D15A03-100-2651
*1 VSX-918V VSX-818V
D501 SLR-343BC4T (JKLM) No use
R501 390 No use
K JOG ASSY (XWZ4289)
J44
D15A03-100-2651
XSX3009-
CHASSIS
MCACC LED (ORANGE)
CENTRE LED (BLUE)
For VSX-918V
KEY IN VOLTAGE (V)
PWRLED
KEY1
KEY2
KEY3
KEY4
GNDU
VDD
STBY
BUS2
MICDET
TUNE+ VSG1024
TUNE- VSG1024
ST+ VSG1024
SB CH VSG1024
SPEAKER VSG1024
SIGNAL SEL VSG1024
CD VSG1024
CDR/TAPE/MD VSG1024
USB VSG1024
FM VSG1024
AM VSG1024
AUX VSG1024
VIDEO/FRONT VSG1024
DVR/VCR VSG1024
TV/SAT VSG1024
DVD/LD VSG1024
ST- VSG1024
RETRIEVER VSG1024
POWER VSG1024
PWRON LED
KEY1
GNDU
FENA
FENB

10.12 DIGITAL INPUT, REGULATOR and HEAD PHONE ASSYS



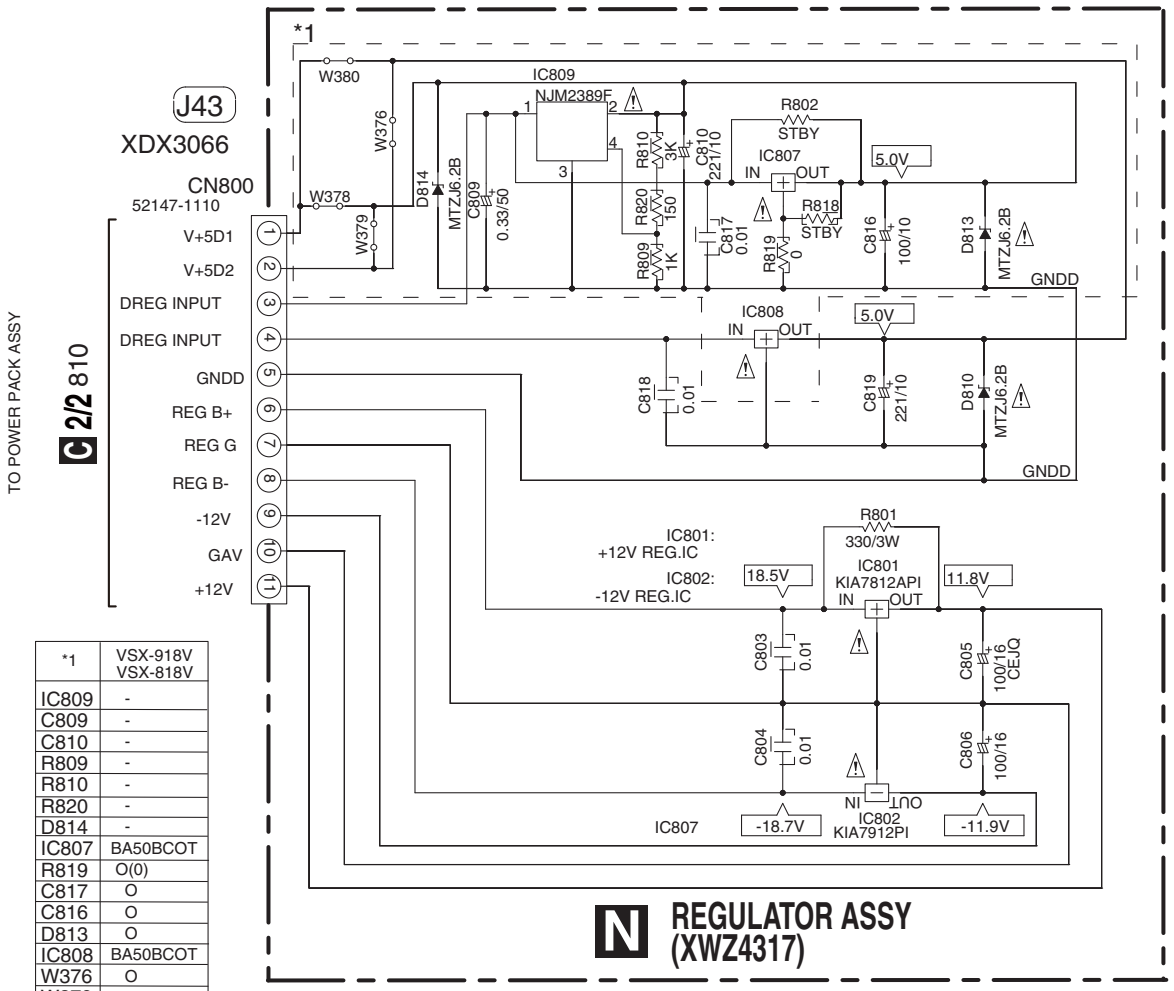
NOTE

1.RESISTORS

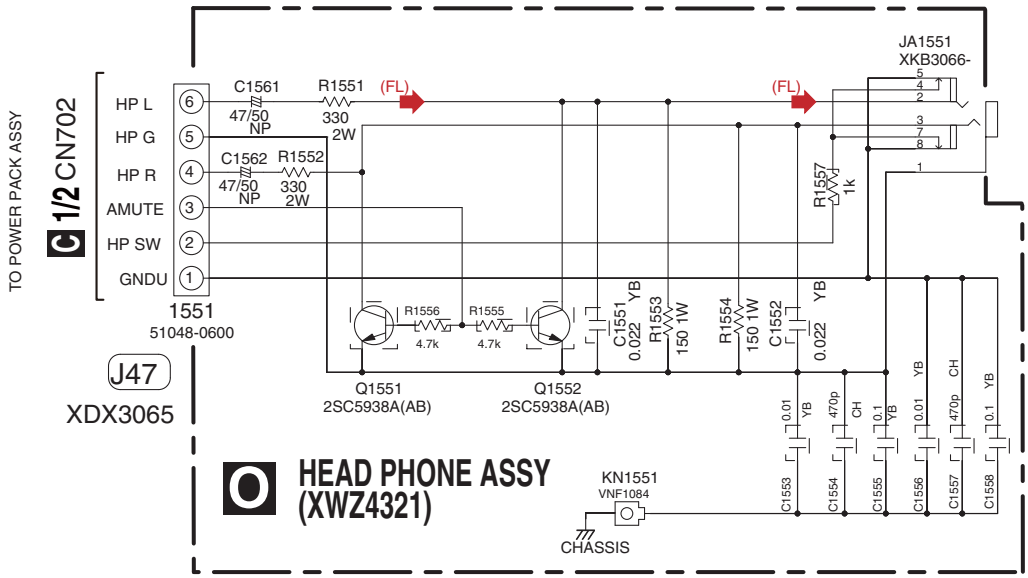
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

2.CAPACITORS

Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.



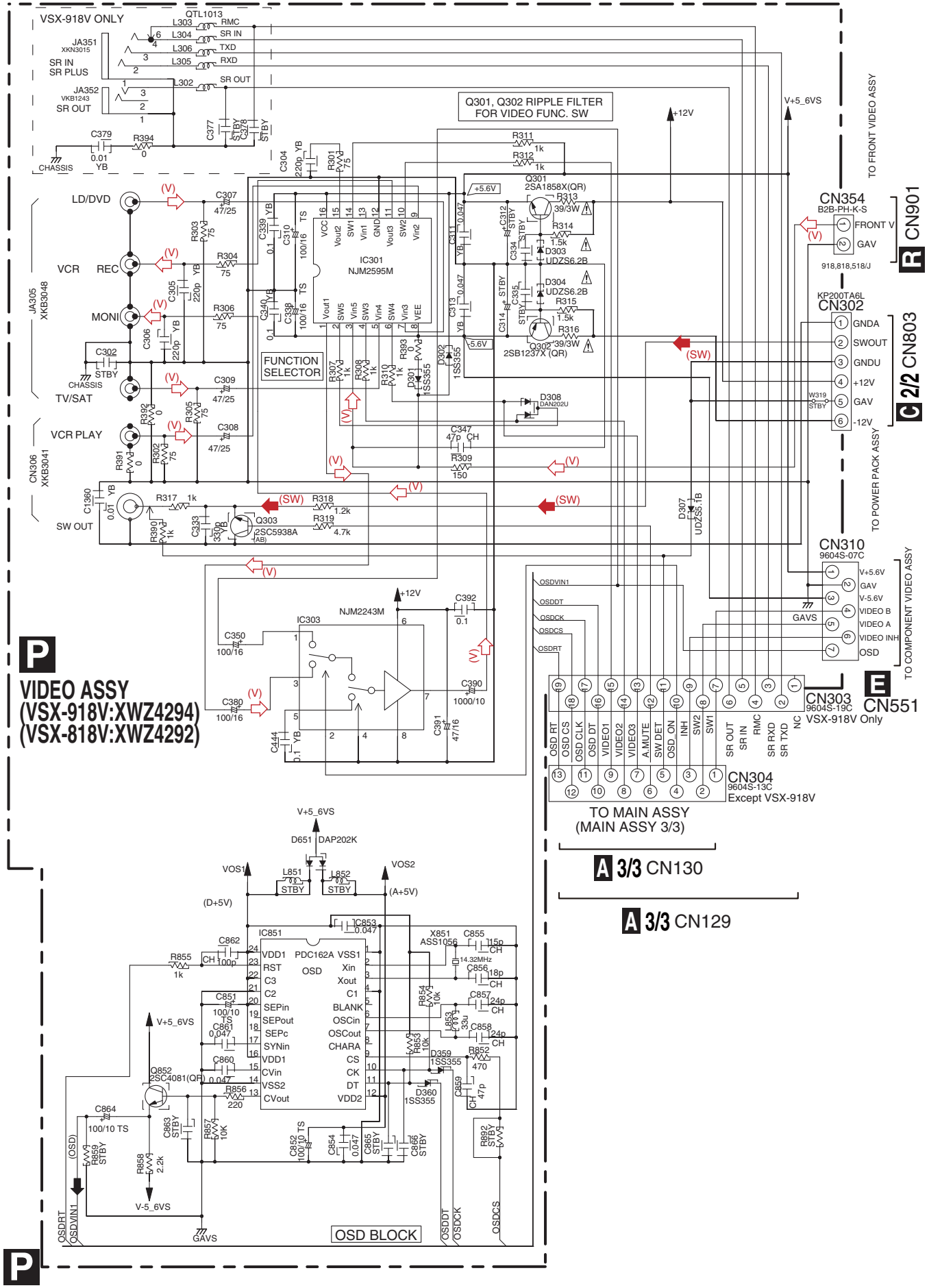
*1	VSX-918V VSX-818V
IC809	-
C809	-
C810	-
R809	-
R810	-
R820	-
D814	-
IC807	BA50BCOT
R819	O(0)
C817	O
C816	O
D813	O
IC808	BA50BCOT
W376	O
W379	-
W380	-
W378	O

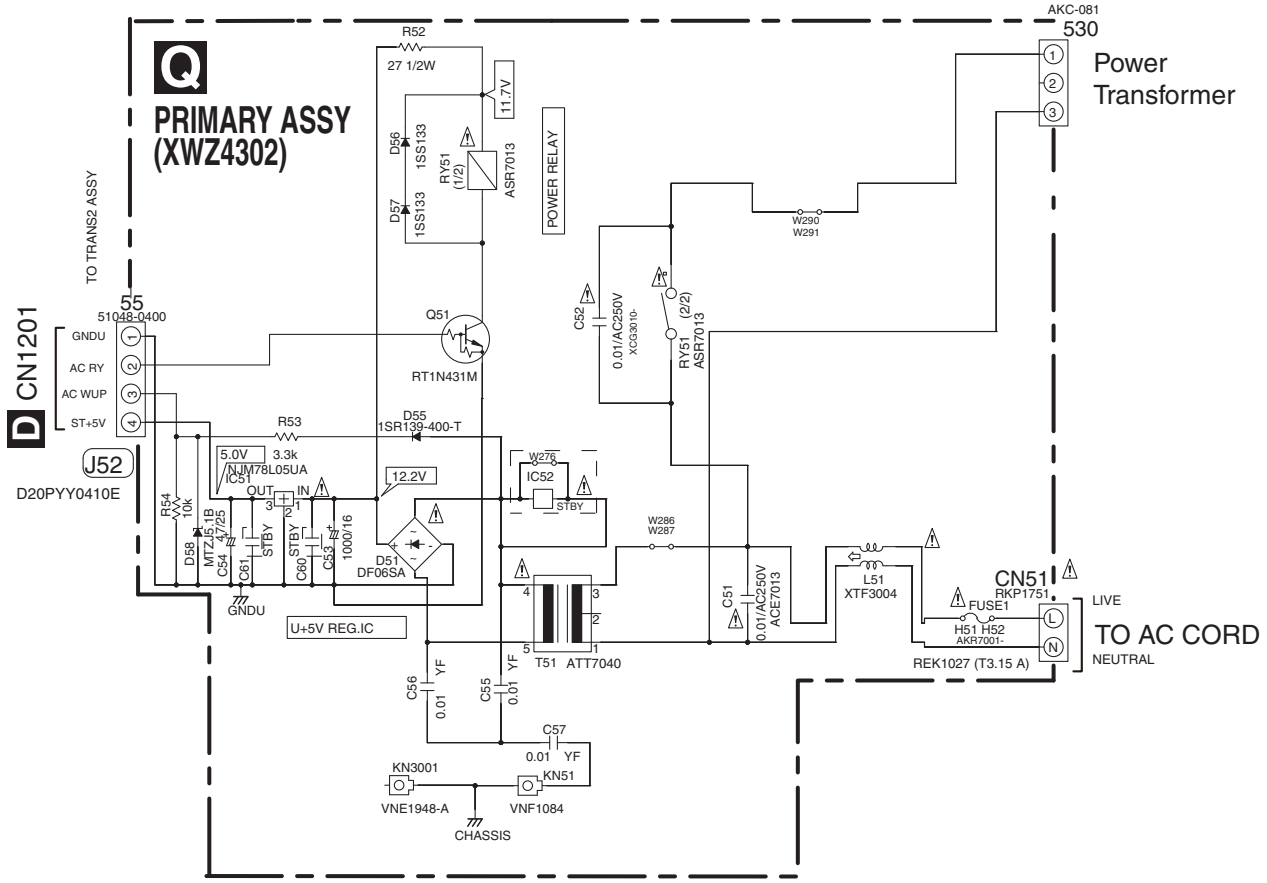


(FL): Audio Signal Route (Front L ch)

N O

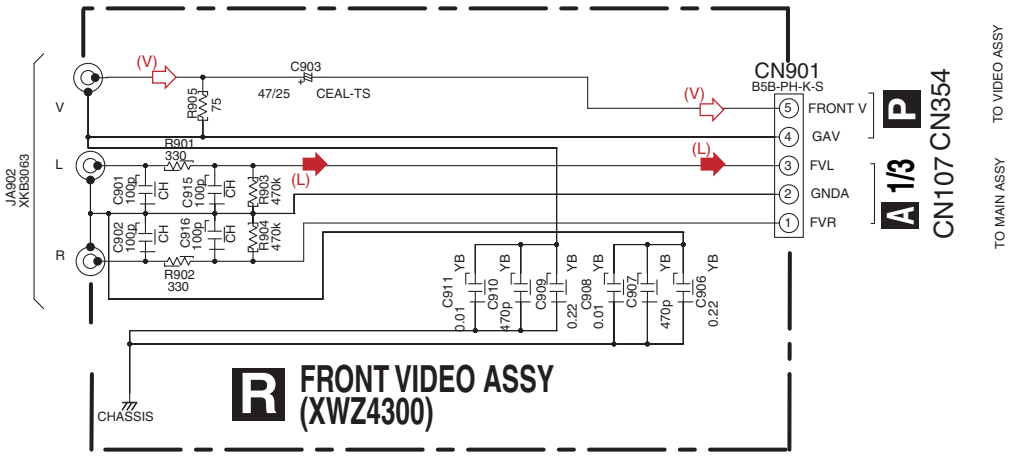
10.13 VIDEO, PRIMARY and FRONT VIDEO ASSYS





• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS OF FUSE.



NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

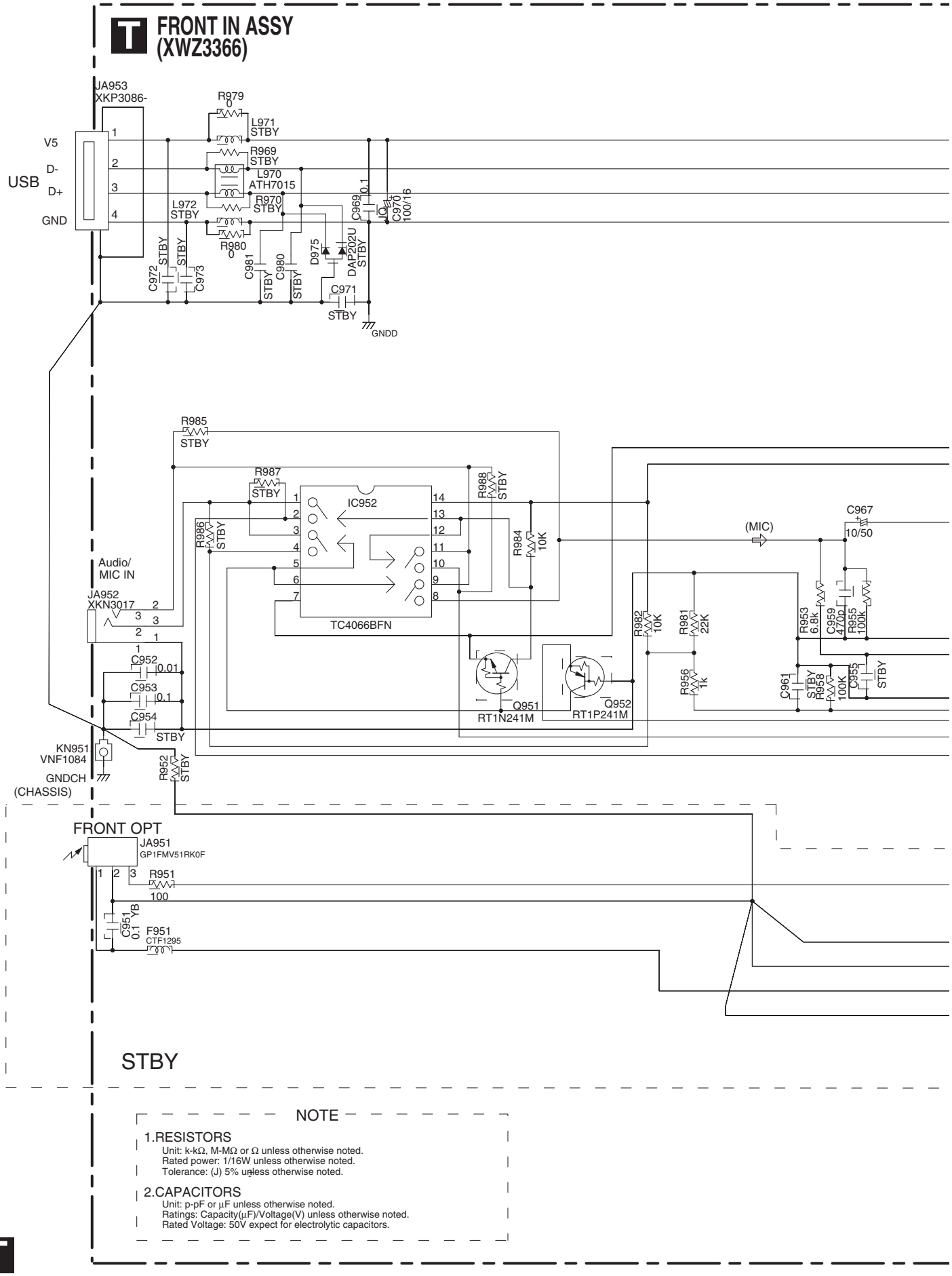
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

(V): Video Signal Route

(L): Audio Signal Route (L ch)

(SW): Audio Signal Route (SubWoofer ch)

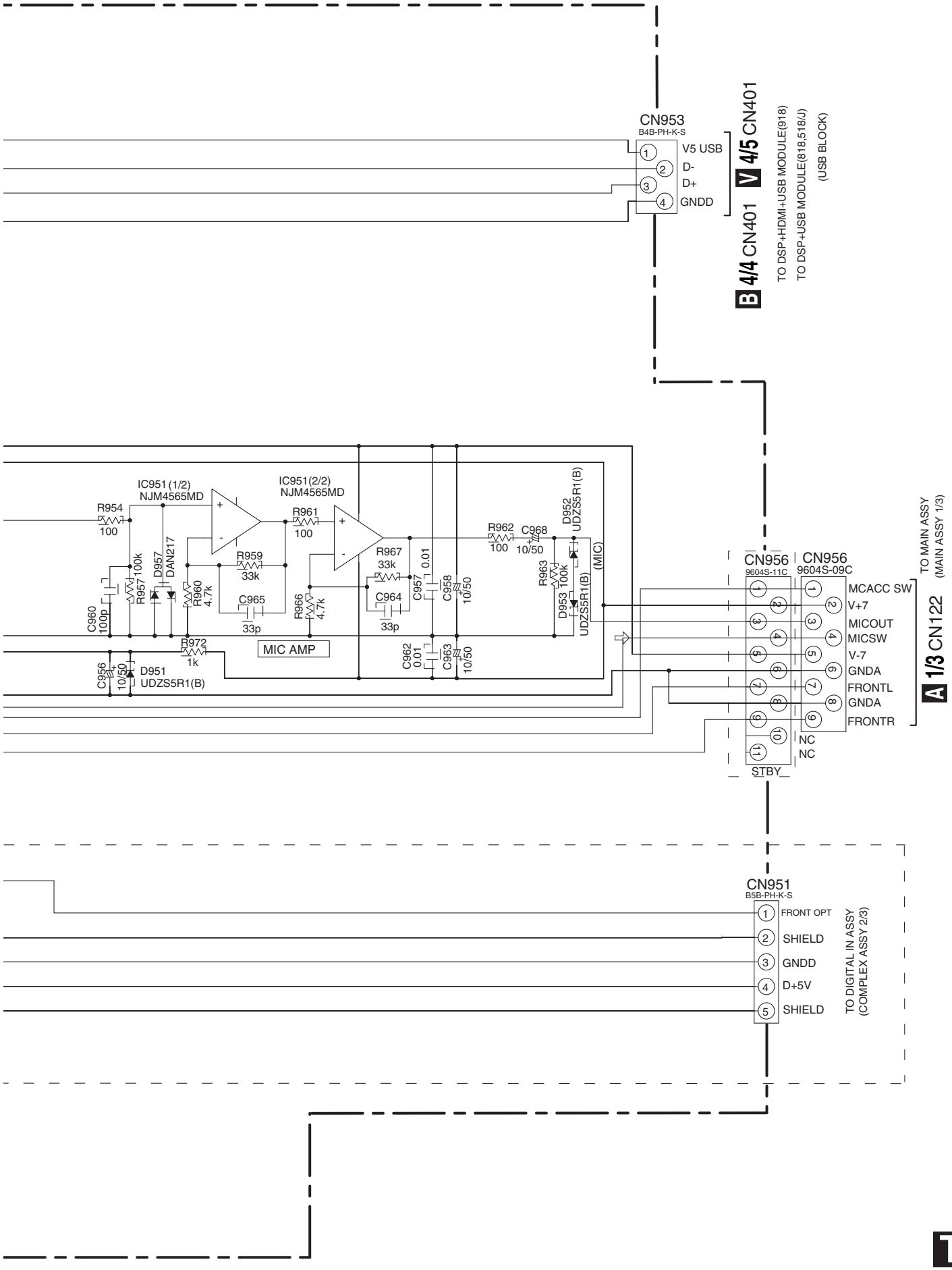
10.14 FRONT IN ASSY



NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) 5% unless otherwise noted.

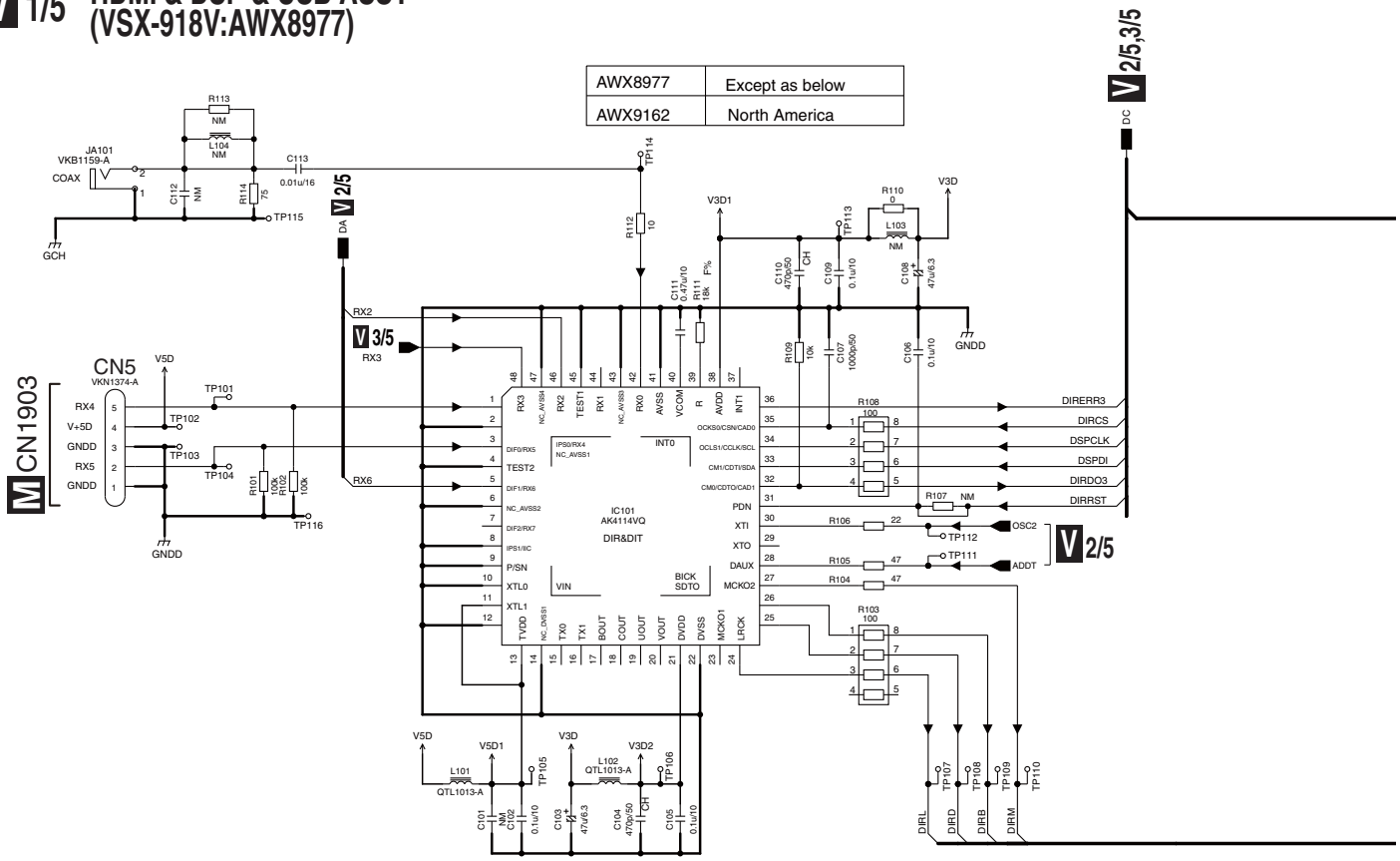
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

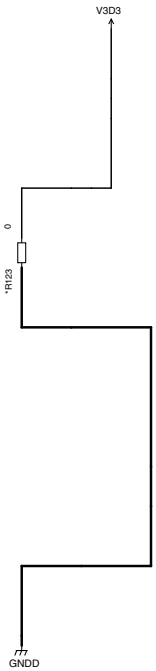

CN953
B4B-PH-K-S
1 V5 USB
2 D-
3 D+
4 GNDD
B 4/4 CN401
V 4/5 CN401
TO DSP+HDMI+USB MODULE(918)
TO DSP+USB MODULE(818,518/J)
(USB BLOCK)
IC951 (1/2)
NJM4565MD
IC951(2/2)
NJM4565MD
R954 100
R961 100
R962 100
C968 10/50
D952 UDZS5R1(B)
(MIC)
R957 100k
D957 DAN217
R959 33k
R960 4.7k
C965 33p
R966 4.7k
R967 33k
C964 33p
C957 0.01
C958 10/50
R963 100k
D953 UDZS5R1(B)
C960 100p
R972 1k
MIC AMP
C962 0.01
C963 10/50
C956 10/50
D951 UDZS5R1(B)
CN956
9604S-11C
CN956
9604S-09C
1 MCACC SW
2 V+7
3 MICOUT
4 MICSW
5 V-7
6 GNDA
7 FRONTL
8 GNDA
9 FRONTR
10 NC
11 NC
STBY
A 1/3 CN122
TO MAIN ASSY
(MAIN ASSY 1/3)
CN951
B5B-PH-K-S
1 FRONT OPT
2 SHIELD
3 GNDD
4 D+5V
5 SHIELD
TO DIGITAL IN ASSY
(COMPLEX ASSY 2/3)

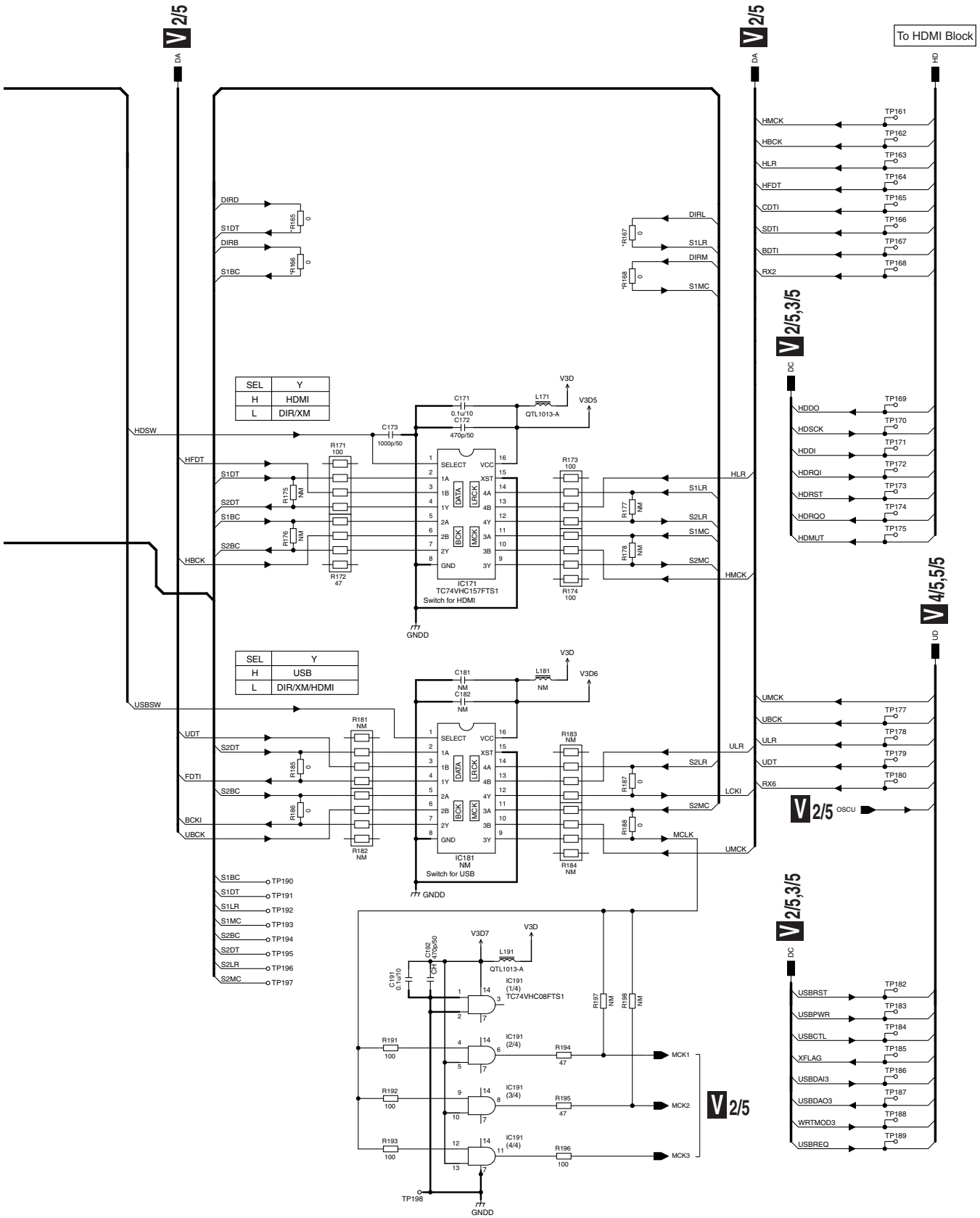
10.15 HDMI & DSP & USB ASSY (1/5)

V 1/5 HDMI & DSP & USB ASSY (VSX-918V:AWX8977)

AWX8977	Except as below
AWX9162	North America

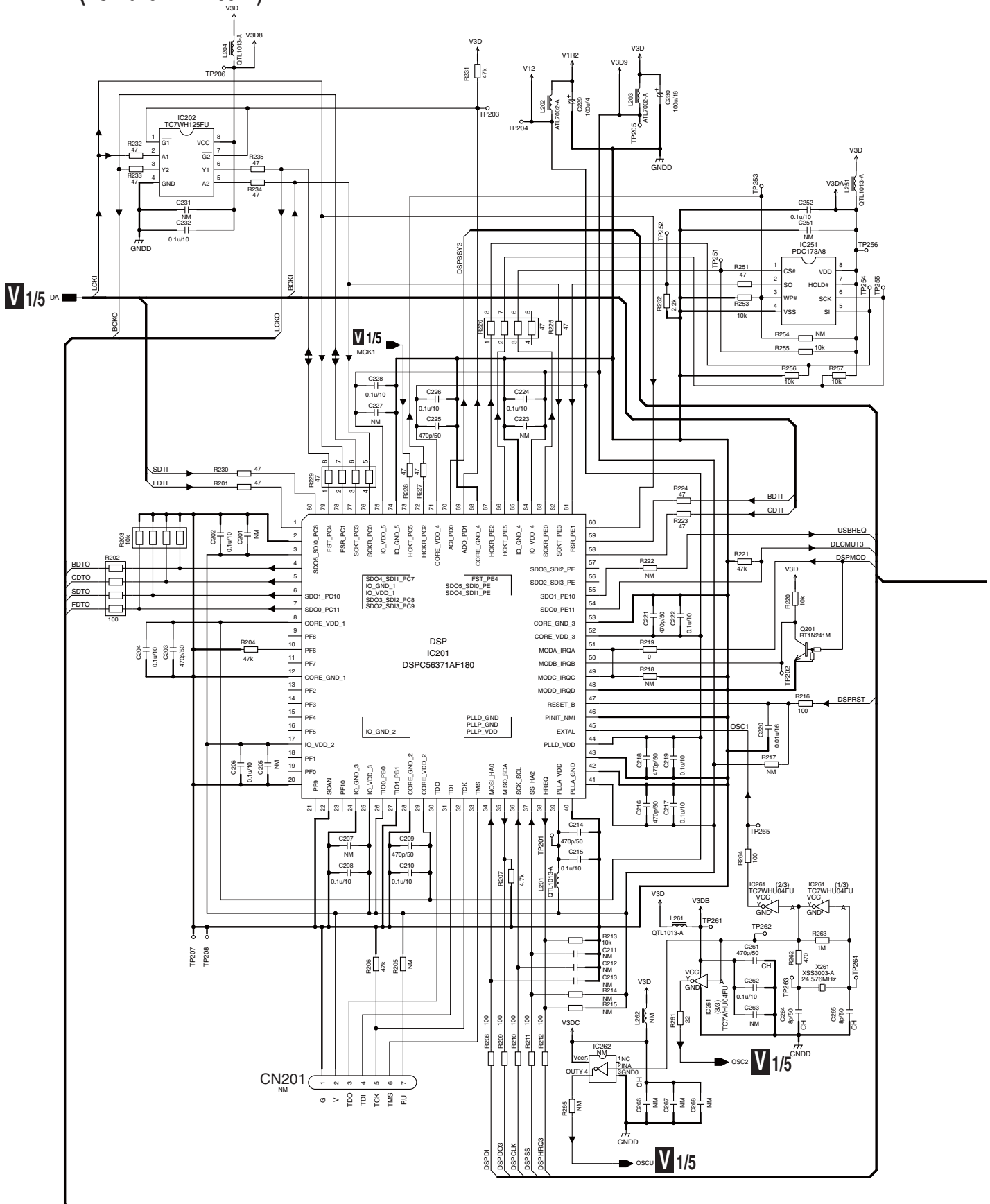


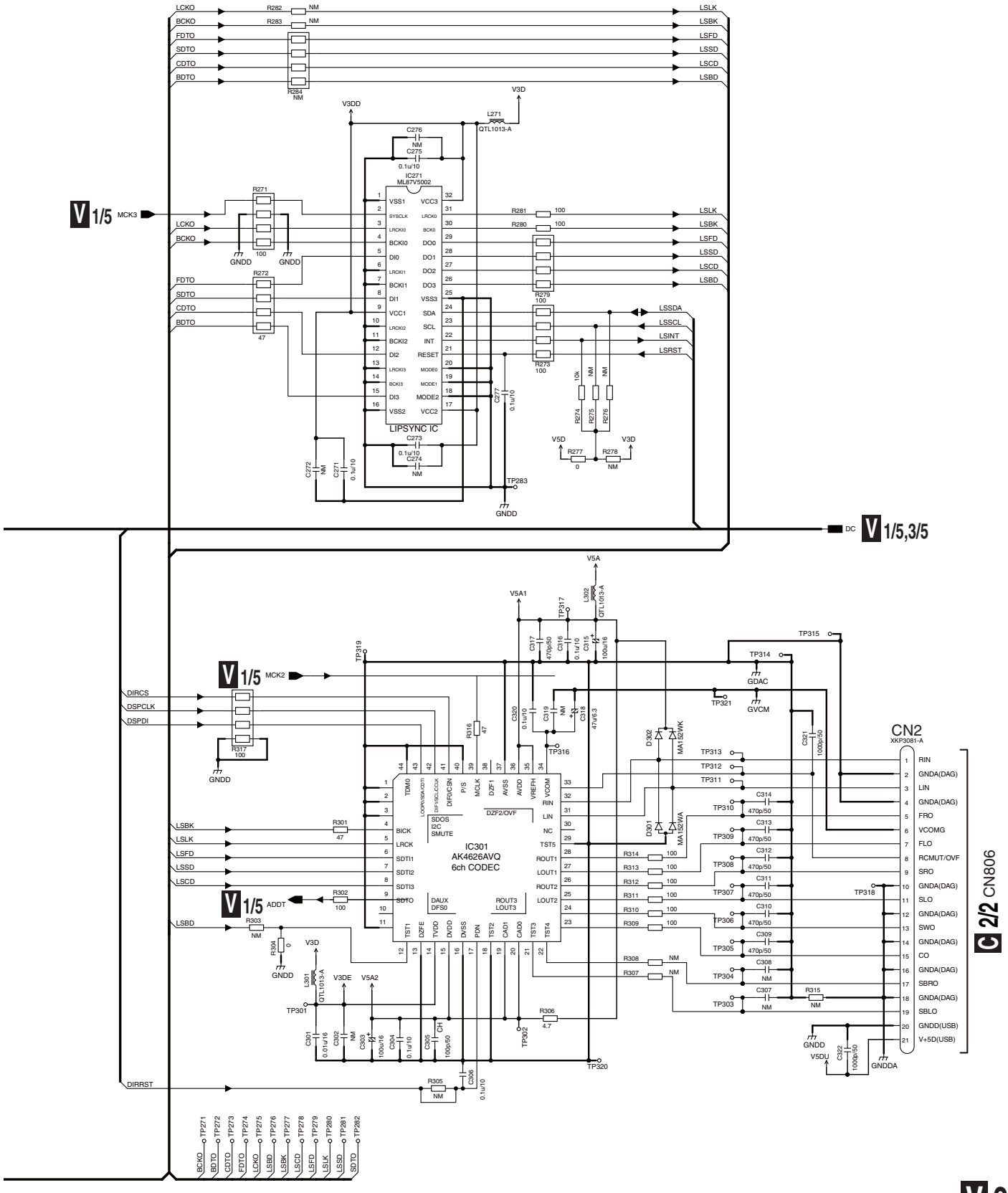



V 2/5
DA
To HDMI Block
HD
V 2/5,3/5
DC
V 4/5,5/5
UD
V 2/5 OSCU
V 1/5
SEL Y
H HDMI
L DIR/XM
SEL Y
H USB
L DIR/XM/HDMI
IC171 TC74VHC157FTS1 Switch for HDMI
IC181 NM Switch for USB
IC191 (1/4) TC74VHC08FTS1
IC191 (2/4)
IC191 (3/4)
IC191 (4/4)
QTL1013-A
V3D
V3D5
V3D6
V3D7
GNDD
DIRD
S1DT
DIRB
S1BC
DIRL
S1LR
DIRM
S1MC
HDSW
HFDT
S2DT
S2BC
HBCK
USBSW
UDT
FDTI
BCKI
UBCK
HLR
HMCK
ULR
UMCK
LCKI
MCLK
MCK1
MCK2
MCK3
HMCK
HBCK
HLR
HFDT
CDTI
SDTI
BDTI
RX2
HDDO
HDSCK
HDDI
HDRQI
HDRST
HDRQO
HDMUT
UMCK
UBCK
ULR
UDT
RX6
USBRST
USBPWR
USBCTL
XFLAG
USBDAI3
USBDAO3
WRTMOD3
USBREQ
S1BC
S1DT
S1LR
S1MC
S2BC
S2DT
S2LR
S2MC

10.16 HDMI & DSP & USB ASSY (2/5)

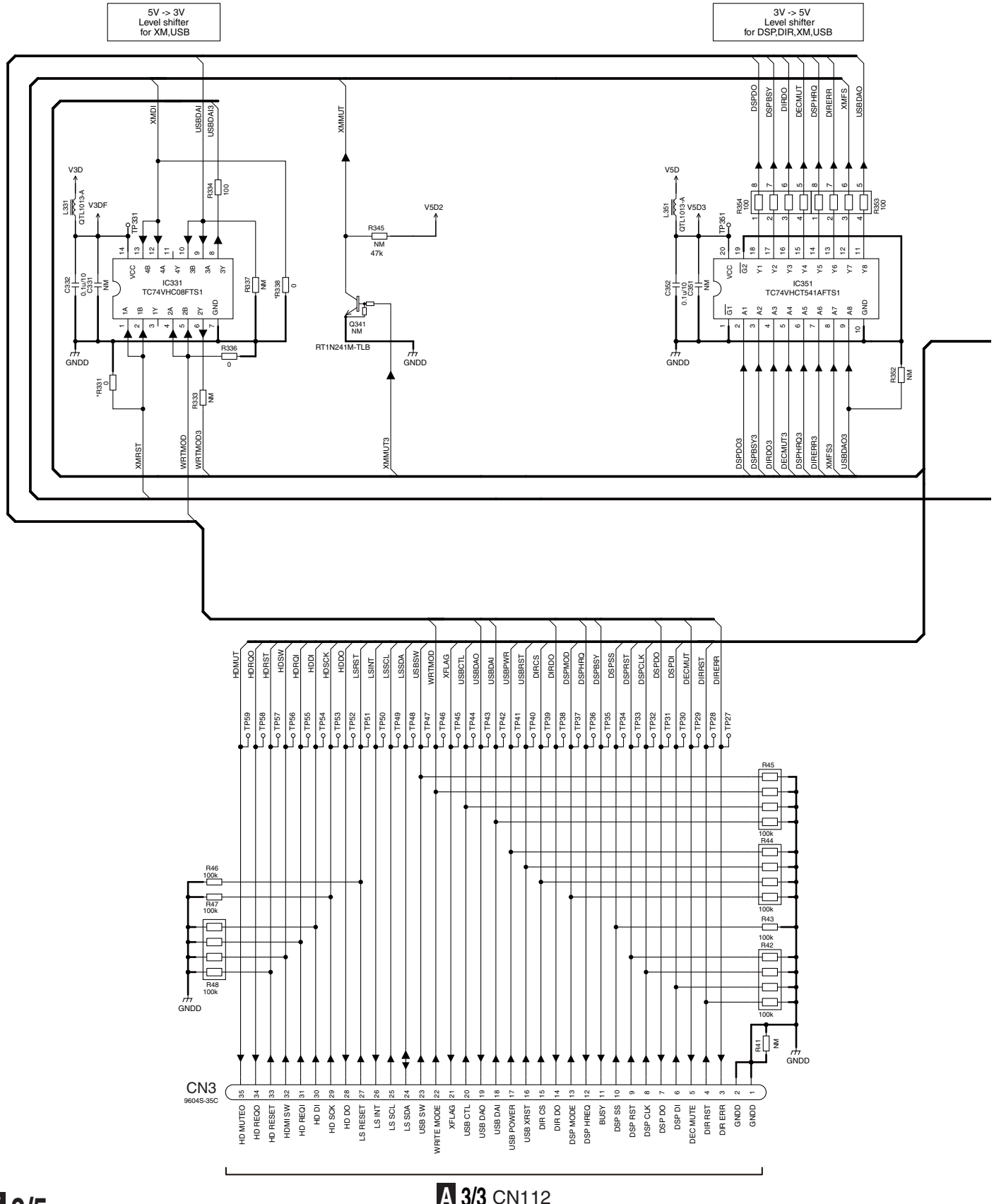
V 2/5 HDMI & DSP & USB ASSY (VSX-918V:AWX8977)

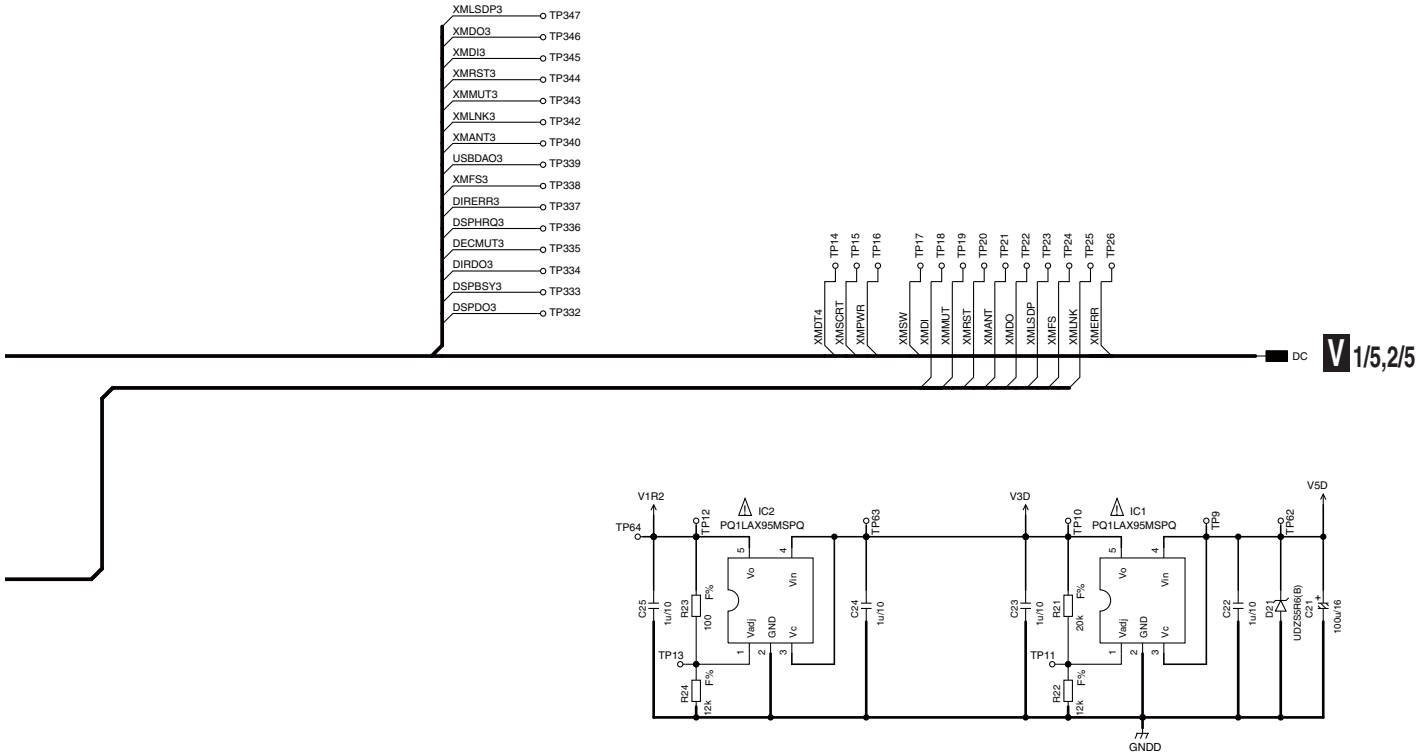



V 1/5 MCK3
LCKO
BCKO
FDTO
SDTO
CDTO
BDTO
R282 NM
R283 NM
R284 NM
LSLK
LSBK
LSFD
LSSD
LSCD
LSBD
V3DD
V3D
L271 QTL1013-A
C276 NM
C275 0.1u/10
IC271 ML87V5002
R271
R272
GNDD
R281 100
R280 100
R279 100
R273 100
LSSDA
LSSCL
LSINT
LSRST
C277 0.1u/10
R274 10k
R275 NM
R276 NM
V5D
R277 0
R278 NM
C273 0.1u/10
C274 NM
C272 NM
C271 0.1u/10
TP283
LIPSYNC IC
DC
V 1/5,3/5
V5A
V5A1
L302 QTL1013-A
TP317
C317 470p/50
C316 0.1u/10
C315 100u/16
TP315
TP314
GDAC
TP321
GVCM
TP319
V 1/5 MCK2
DIRCS
DSPCLK
DSPDI
R317 100
R316 47
C320 0.1u/10
C319 NM
C318 47u/6.3
TP316
D302 MA132WK
D301 MA132WA
C321 1000p/50
CN2
XKP3081-A
RIN
GNDA(DAG)
LIN
FRO
VCOMG
FLO
RCMUT/OVF
SRO
SLO
SWO
CO
SBRO
SBLO
GNDD(USB)
V+5D(USB)
C 2/2 CN806
TP313
TP312
TP311
TP310
TP309
TP308
TP307
TP306
TP305
TP304
TP303
C314 470p/50
C313 470p/50
C312 470p/50
C311 470p/50
C310 470p/50
C309 470p/50
C308 NM
C307 NM
R315 NM
TP318
LSBK
LSLK
LSFD
LSSD
LSCD
R301 47
V 1/5 ADDT
R302 100
LSBD
R303 NM
R304 0
IC301
AK4626AVQ
6ch CODEC
SDOS
I2C
SMUTE
DAUX
DFS0
ROUT3
LOUT3
DZF2/OVF
R314 100
R313 100
R312 100
R311 100
R310 100
R309 100
R308 NM
R307 NM
L301 QTL1013-A
V3DE
V5A2
TP301
TP302
R306 4.7
C301 0.1u/16
C302 NM
C303
C304 0.1u/10
C305 CH 100p/50
C306 0.1u/10
TP320
V5DU
C322 1000p/50
GNDA
R305 NM
DIRRST
BCKO
BDTO
CDTO
FDTO
LCKO
LSBD
LSBK
LSCD
LSFD
LSLK
LSSD
SDTO
TP271
TP272
TP273
TP274
TP275
TP276
TP277
TP278
TP279
TP280
TP281
TP282
V 2/5

10.17 HDMI & DSP & USB ASSY (3/5)

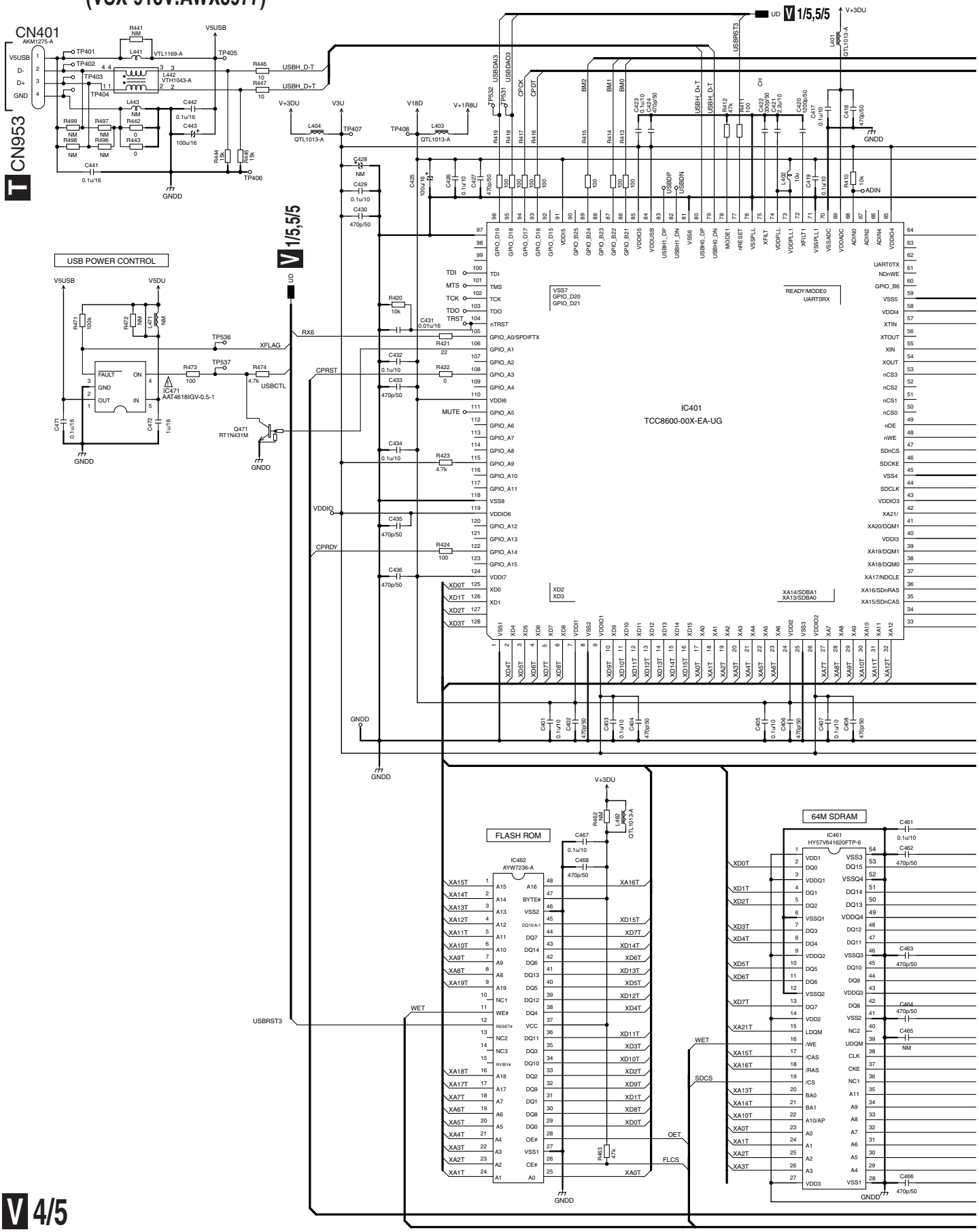
V 3/5 HDMI & DSP & USB ASSY (VSX-918V:AWX8977)

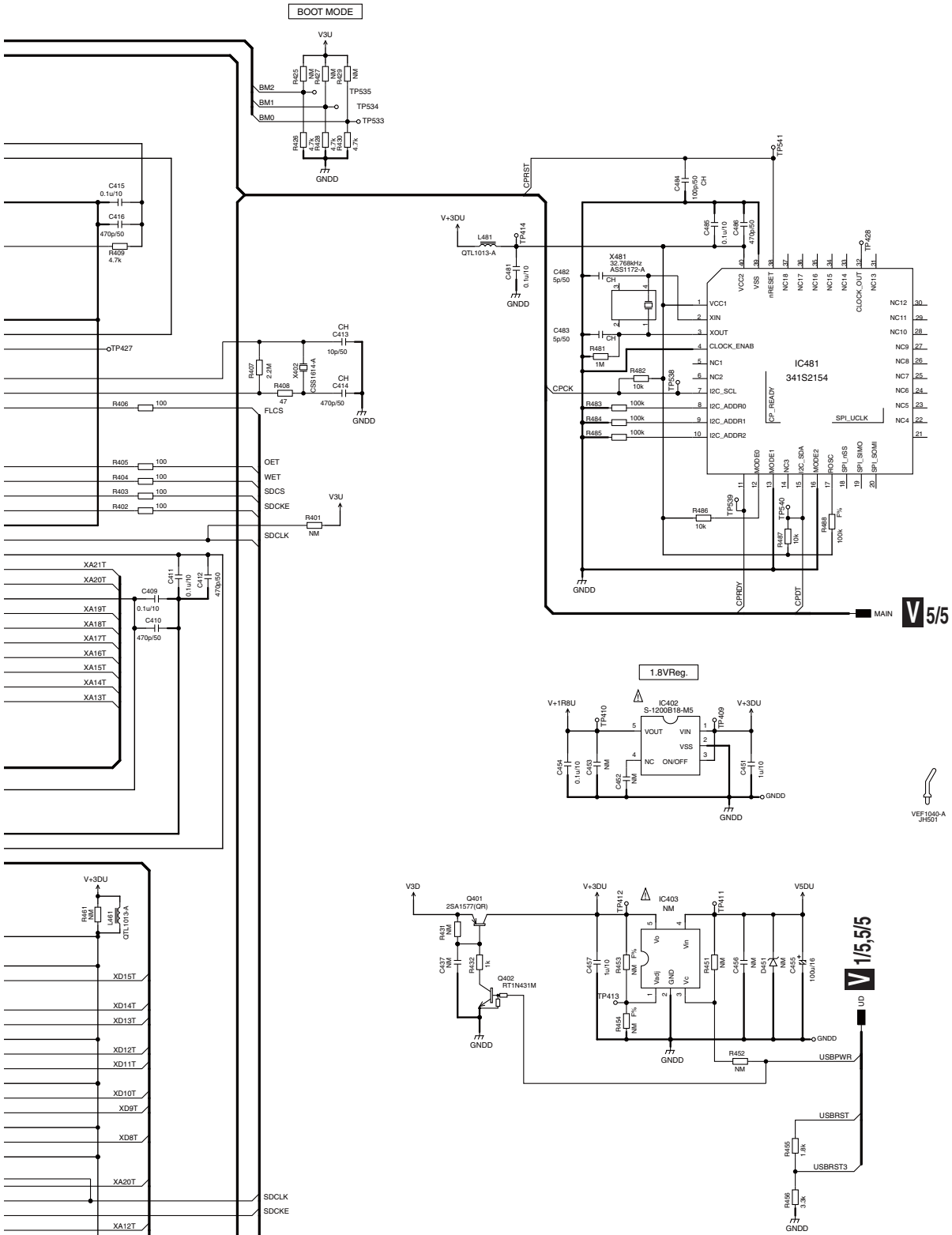



XMLSDP3 TP347
XMDO3 TP346
XMDI3 TP345
XMRST3 TP344
XMMUT3 TP343
XMLNK3 TP342
XMANT3 TP340
USBDAO3 TP339
XMFS3 TP338
DIRERR3 TP337
DSPHRQ3 TP336
DECMUT3 TP335
DIRDO3 TP334
DSPBSY3 TP333
DSPDO3 TP332
XMDT4 TP14
XMSCRT TP15
XMPWR TP16
XMSW TP17
XMDI TP18
XMMUT TP19
XMRST TP20
XMANT TP21
XMDO TP22
XMLSDP TP23
XMFS TP24
XMLNK TP25
XMERR TP26
DC
V 1/5,2/5
V1R2
TP64
TP12
IC2
PQ1LAX95MSPQ
TP63
V3D
TP10
IC1
PQ1LAX95MSPQ
TP9
V5D
TP62
C25 1u/10
R23 100 F%
C24 1u/10
C23 1u/10
R21 20k F%
C22 1u/10
D21 UDZS5R6(B)
C21 100u/16
TP13
R24 12k F%
TP11
R22 12k F%
GNDD
R8 NM
GNDDA
C6 NM
C5 NM
R7 0
TP61
GVCM
C4 NM
C3 NM
R4 NM
TP60
R5 NM
R6 NM
V5A
UDZS5R6(B)
D1
V5D
GDAC
C15 NM
C2 NM
C1 NM
TP2
L2 ATL7002-A
L1 ATL7002-A
TP4
GNDD
C14 NM
R3 NM
R2 NM
V5DH
TP3
TP7
TP6
TP5
V 1/5 RX3
TP1
GCH
C13 NM
L3 ATL7002-A
C7 1000p/50
R1 100k
V7DH
V2
V1
TP8
CN1
XKP3077-A
V+7D(HDMI)
V+5A
GNDA(DAG)
GNDA(DAG)
V+5D
V+5D
DGRTN
DGRTN
DGRTN
GNDD
V+5D(HDMI)
uGRTN
RX3
C 2/2 CN805
R9 NM
GNDD (DIR)
GNDD (XM)
C9 0.01u/16
C10 470p/50
GNDD (DSP)
GDAC (CODEC)
C11 0.1u/10
C12 470p/50
GNDD (DIR)
GDAC (CODEC)

10.18 HDMI & DSP & USB ASSY (4/5)

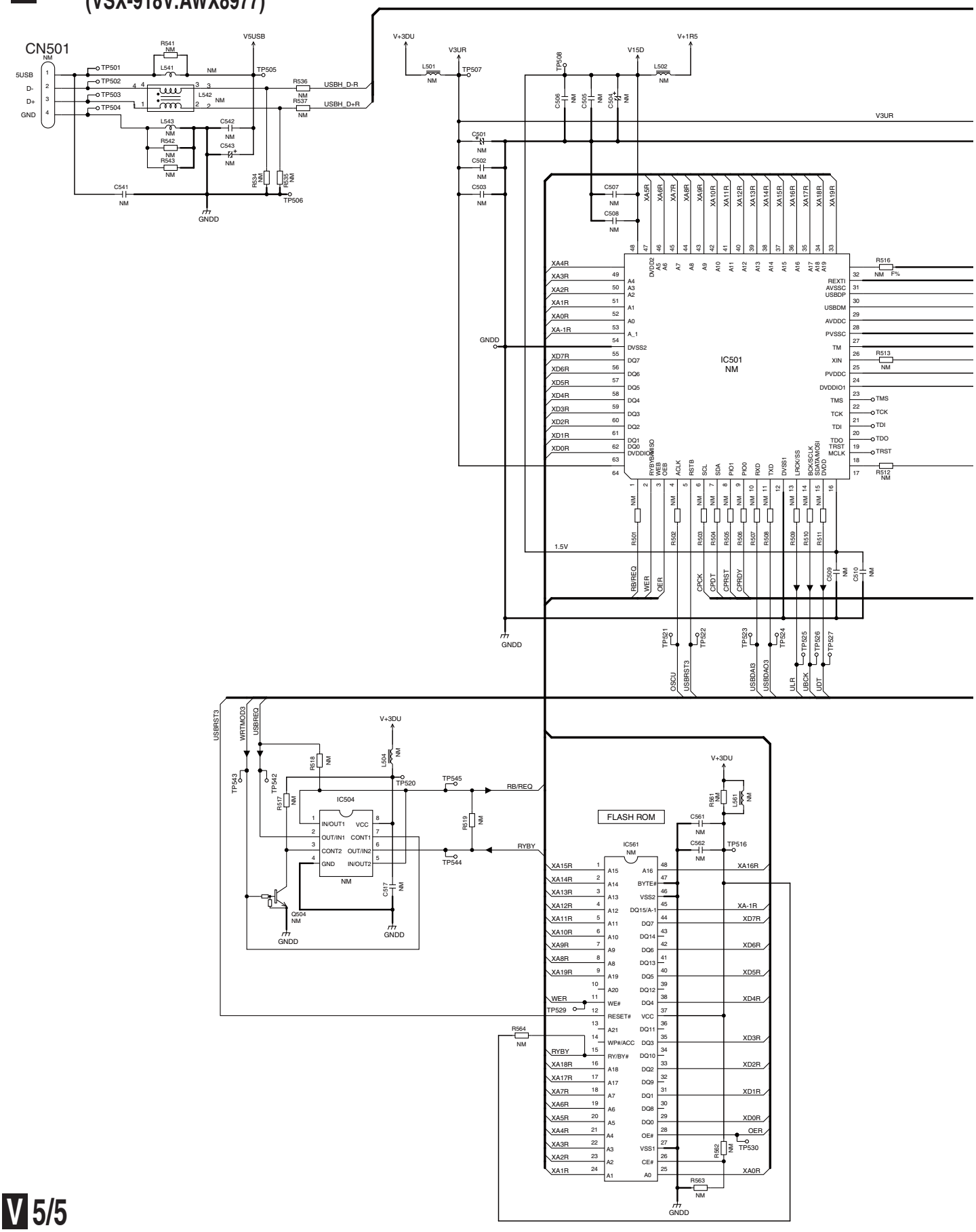
V 4/5 HDMI & DSP & USB ASSY (VSX-918V:AWX8977)

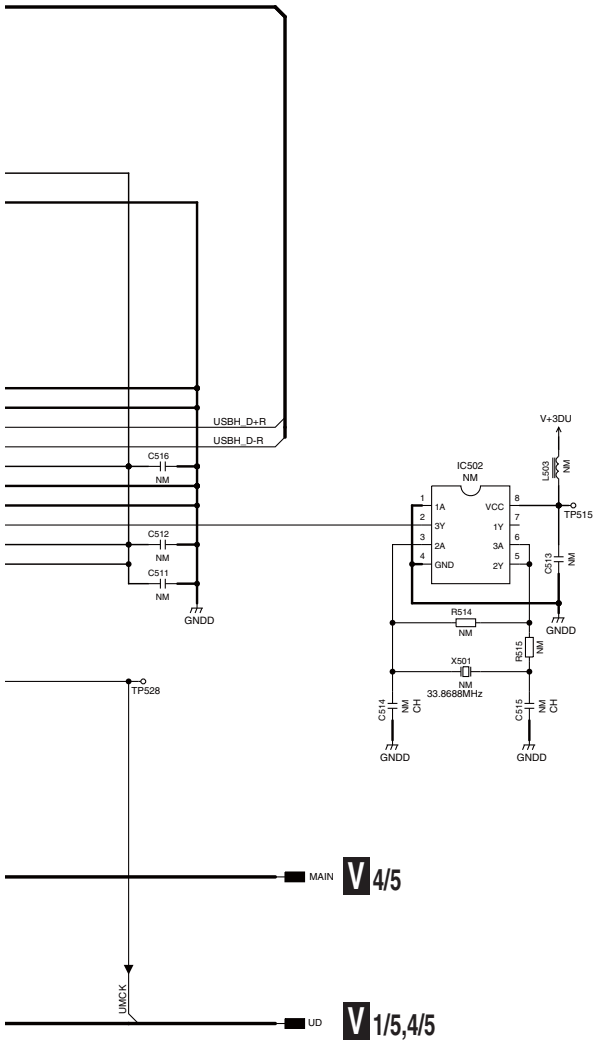


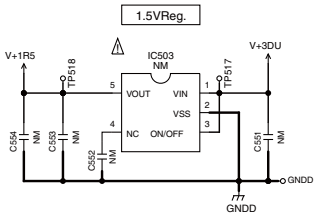

BOOT MODE
V3U
BM2
BM1
BM0
TP535
TP534
TP533
GNDD
C415
0.1u/10
C416
470p/50
R409
4.7k
TP427
R407
2.2M
X402
CSS1614-A
C413
10p/50
R408
47
C414
470p/50
R406
100
FLCS
R405
R404
R403
R402
OET
WET
SDCS
SDCKE
R401
NM
SDCLK
XA21T
XA20T
XA19T
XA18T
XA17T
XA16T
XA15T
XA14T
XA13T
C409
0.1u/10
C410
470p/50
C411
0.1u/10
C412
470p/50
V+3DU
R461
NM
L481
QTL1013-A
XD15T
XD14T
XD13T
XD12T
XD11T
XD10T
XD9T
XD8T
XA12T
XA11T
XA9T
XA8T
XA7T
XA6T
XA5T
XA4T
CPRST
TP541
C484
100p/50
C485
0.1u/10
C486
470p/50
TP428
L481
QTL1013-A
TP414
C481
0.1u/10
X481
32.768kHz
ASS1172-A
C482
5p/50
C483
5p/50
R481
1M
R482
10k
TP538
CPCK
R483
100k
R484
100k
R485
100k
IC481
341S2154
VCC1
XIN
XOUT
CLOCK_ENAB
NC1
NC2
I2C_SCL
I2C_ADDR0
I2C_ADDR1
I2C_ADDR2
VCC2
VSS
nRESET
NC18
NC17
NC16
NC15
NC14
CLOCK_OUT
NC13
NC12
NC11
NC10
NC9
NC8
NC7
NC6
NC5
NC4
CP_READY
SPI_UCLK
MOD E0
MODE1
NC3
I2C_SDA
MODE2
ROSC
SPI_nSS
SPI_SIMO
SPI_SOMI
TP539
R486
10k
TP540
R487
10k
R488
100k
1%
CPRDY
CPDT
MAIN
V 5/5
1.8VReg.
V+1R8U
TP410
IC402
S-1200B18-M5
VOUT
VIN
VSS
NC
ON/OFF
TP409
V+3DU
C454
0.1u/10
C453
NM
C452
NM
C451
1u/10
GNDD
VEF1040-A
JH501
V3D
Q401
2SA1577(QR)
R431
NM
C437
NM
R432
1k
Q402
RT1N431M
V+3DU
TP412
IC403
NM
Vo
Vadj
GND
Vin
Vc
TP413
R453
1%
R454
1%
C457
1u/10
R451
NM
C456
NM
D451
NM
C455
100u/16
V5DU
V 1/5,5/5
UD
R452
NM
USBPWR
USBRST
R455
1.8k
USBRST3
R456
3.3k
V 4/5
VSX-918V-K
99

10.19 HDMI & DSP & USB ASSY (5/5)

V 5/5 HDMI & DSP & USB ASSY (VSX-918V:AWX8977)




USBH_D+R
USBH_D-R
C516
NM
C512
NM
C511
NM
GNDD
IC502
NM
1A
3Y
2A
GND
VCC
1Y
3A
2Y
V+3DU
L503
NM
TP515
C513
NM
R514
NM
R515
NM
X501
NM
33.8688MHz
C514
NM
CH
C515
NM
CH
TP528
MAIN
4/5
UMCK
UD
1/5,4/5


1.5VReg.
V+1R5
TP518
IC503
NM
VOUT
VIN
VSS
NC
ON/OFF
V+3DU
TP517
C554
NM
C553
NM
C552
NM
C551
NM
GNDD

11. PCB CONNECTION DIAGRAM
11.1 DSP & USB and HDMI ASSYS

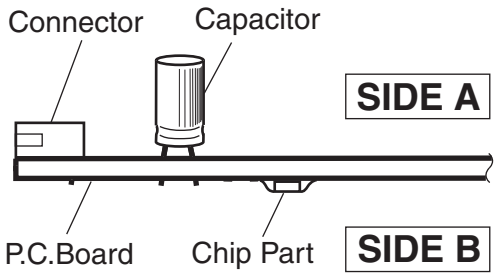
SIDE A

NOTE FOR PCB DIAGRAMS :

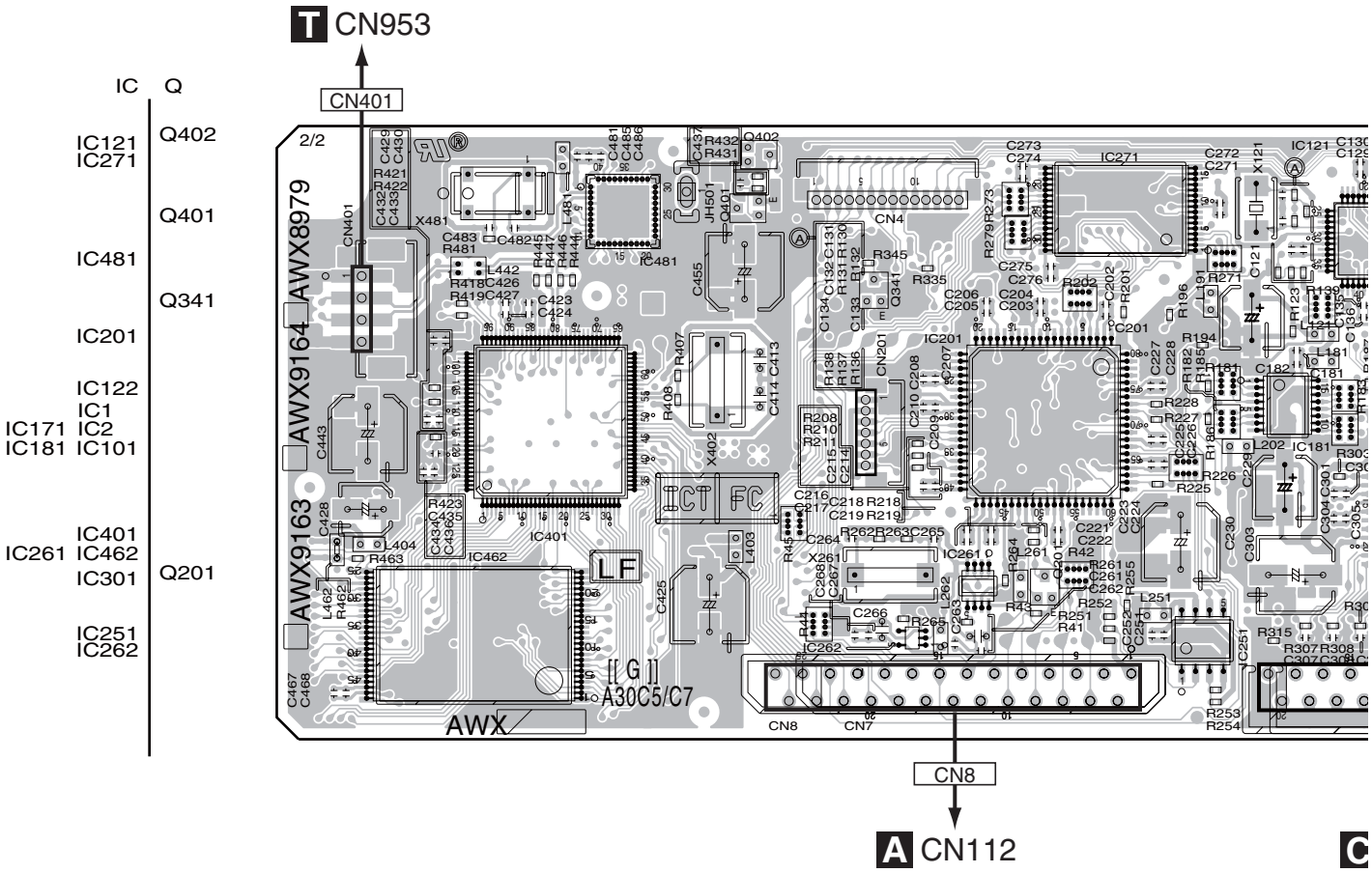
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

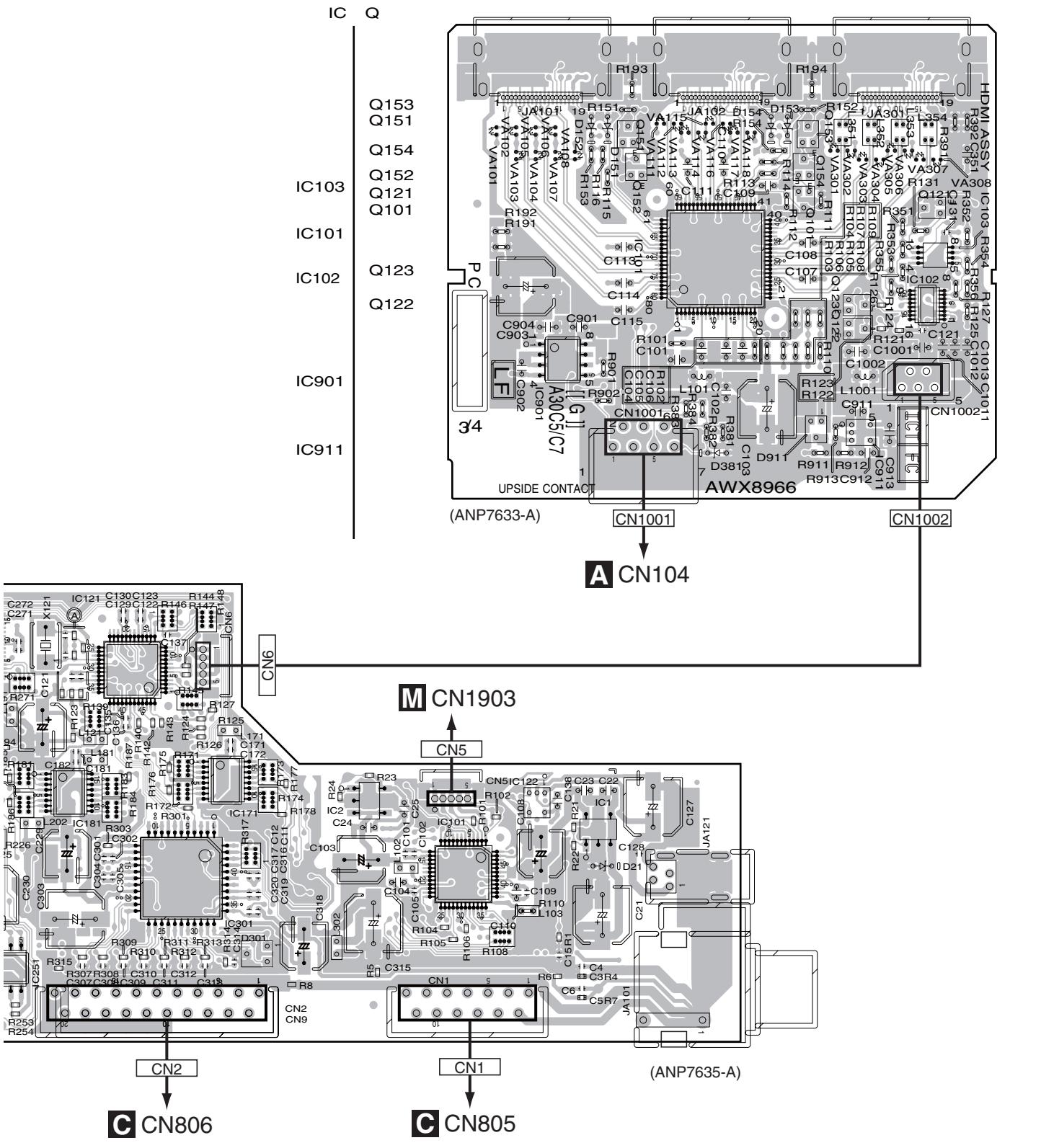


B DSP&USB ASSY



SIDE A

W HDMI ASSY

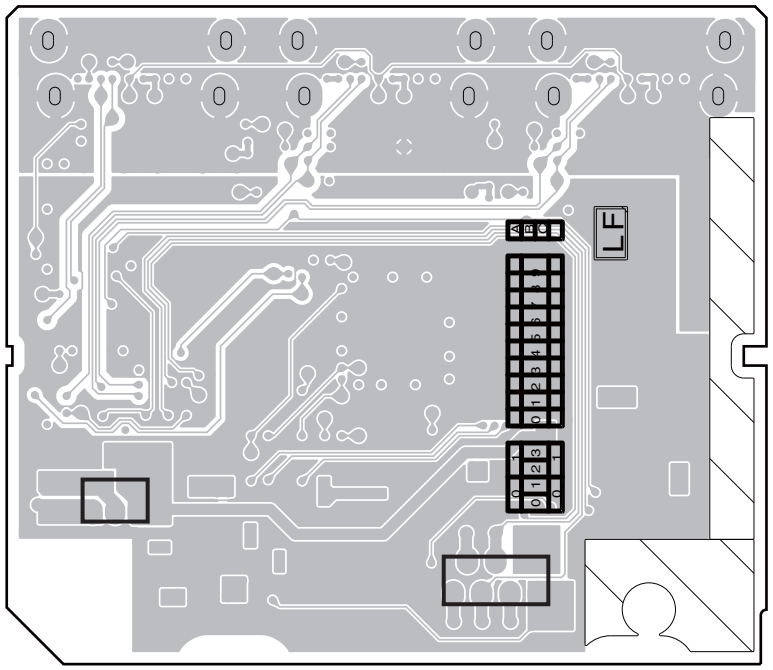


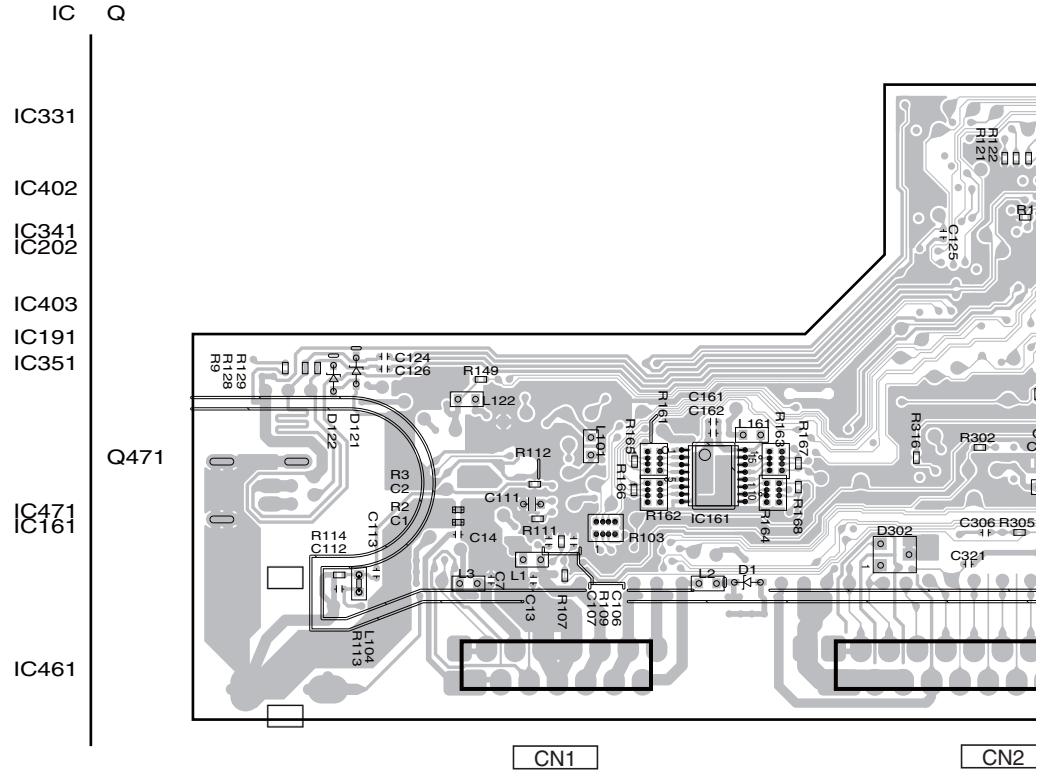
B W

VSX-918V-K

SIDE B

W HDMI ASSY





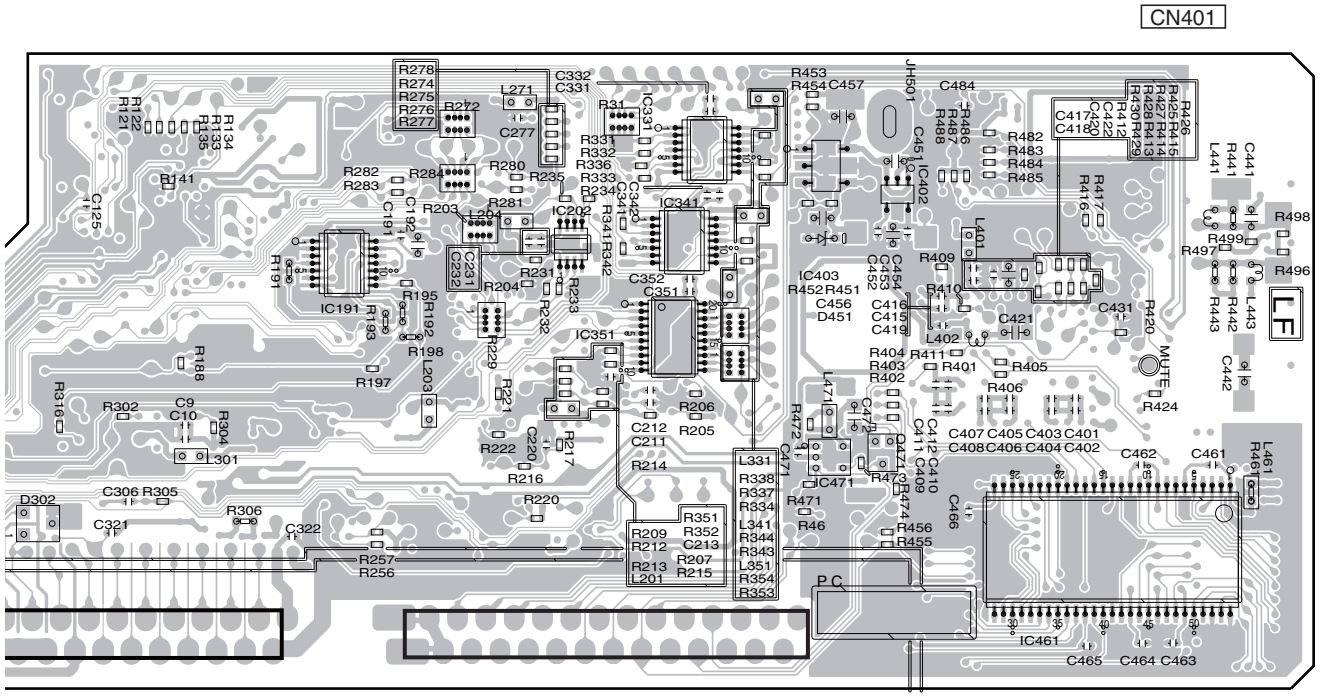
SIDE B

A

B

C

B DSP&USB ASSY



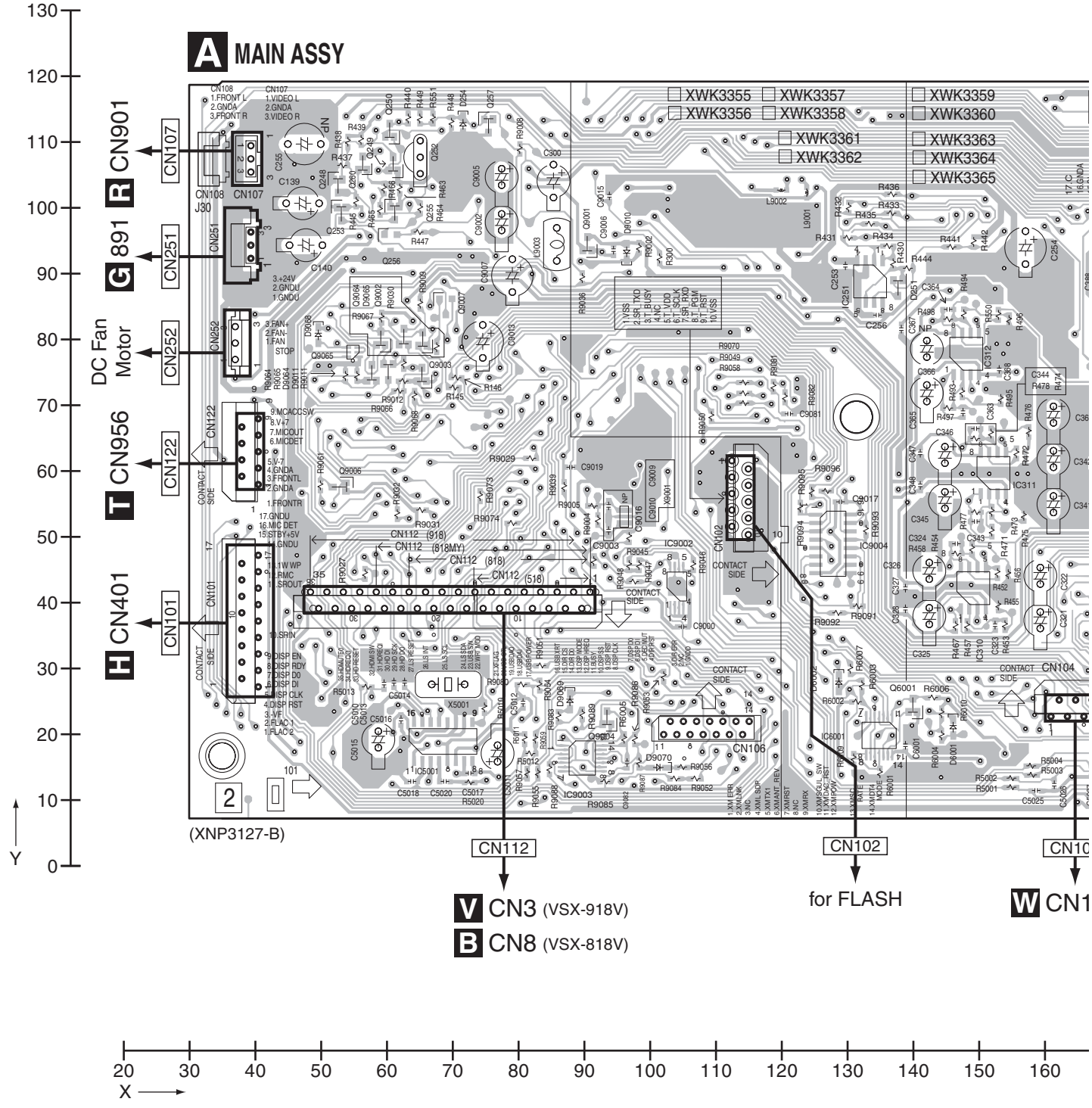
D

E

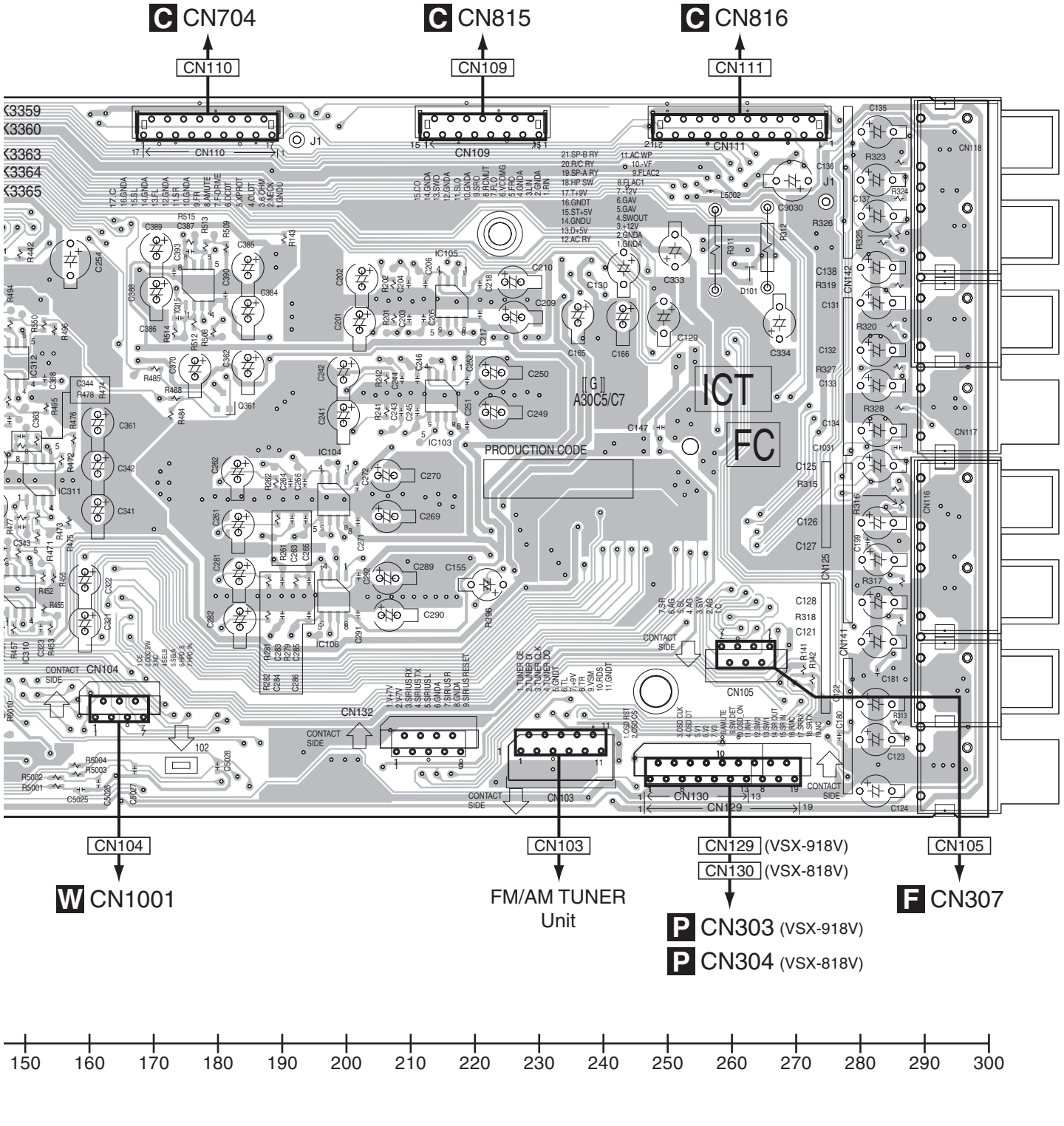
F

11.2 MAIN ASSY

SIDE A

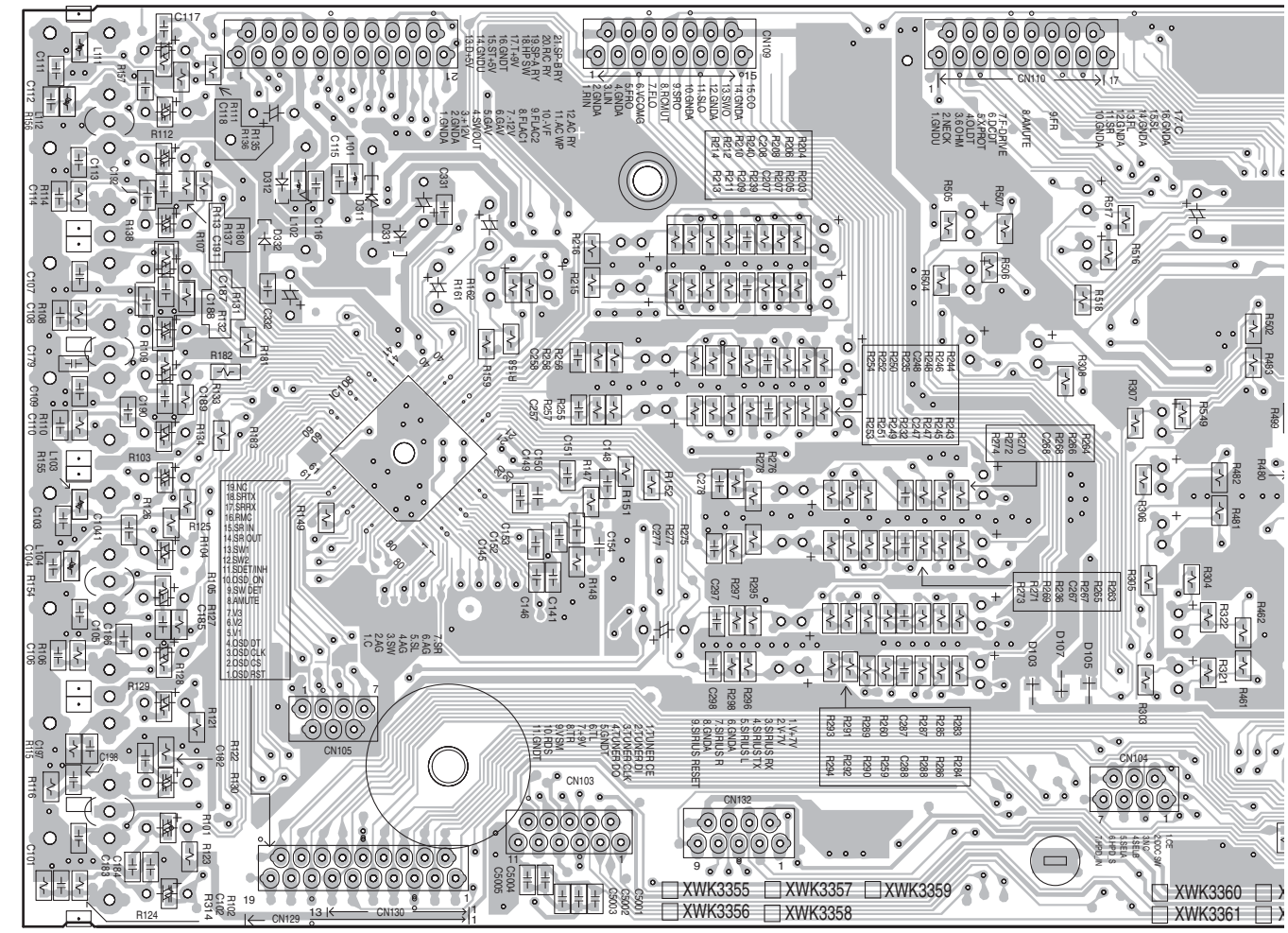


SIDE A


C CN704
C CN815
C CN816
CN110
CN109
CN111
CN104
CN103
CN129 (VSX-918V)
CN130 (VSX-818V)
CN105
W CN1001
FM/AM TUNER Unit
P CN303 (VSX-918V)
P CN304 (VSX-818V)
F CN307
ICT
FC
PRODUCTION CODE
A30C5/C7
CN132
CN106
CONTACT SIDE
150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

SIDE B

A MAIN ASSY

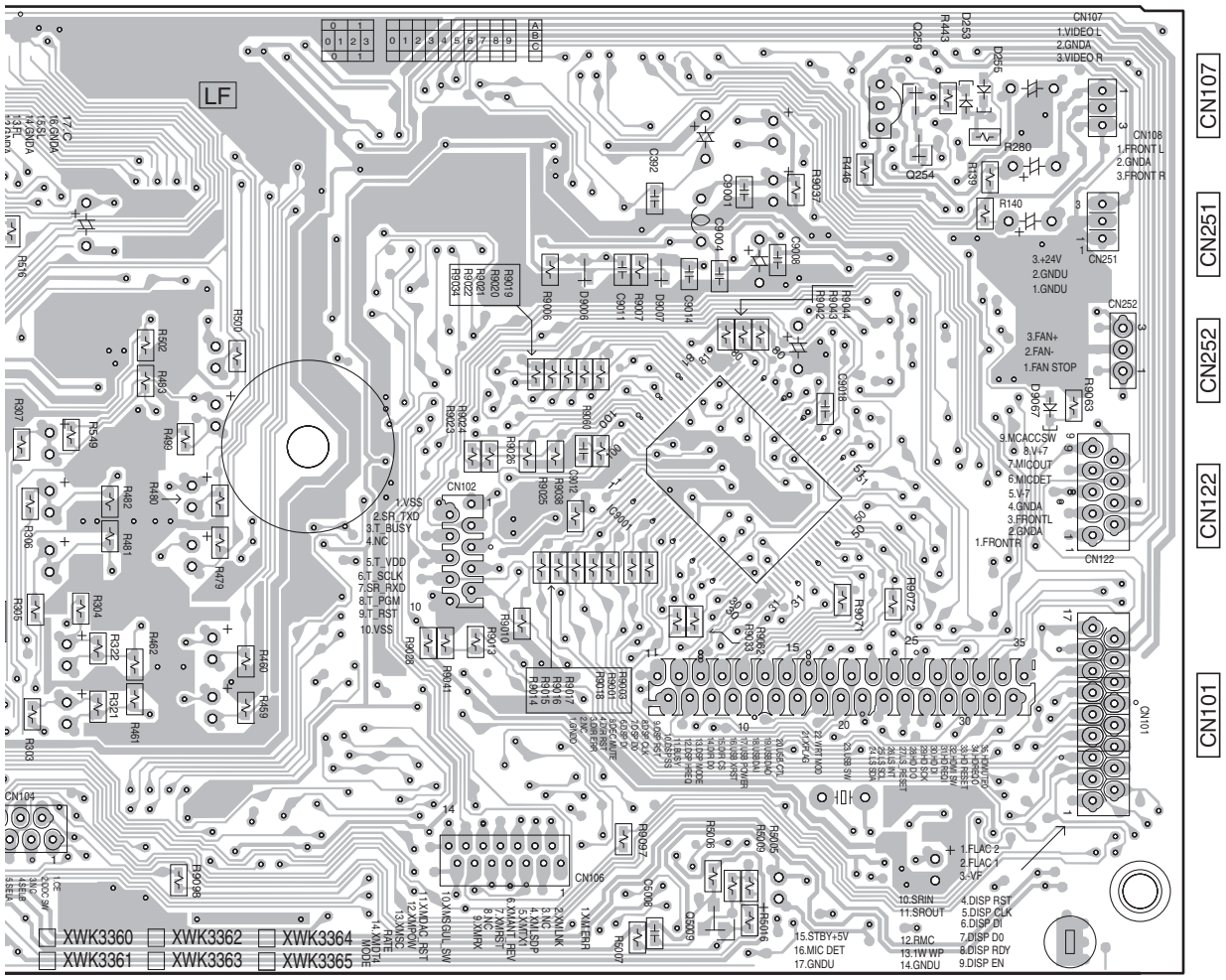


CN105 CN129 (VSX-918V) CN130 (VSX-818V) CN103 CN132 CN104

300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

A

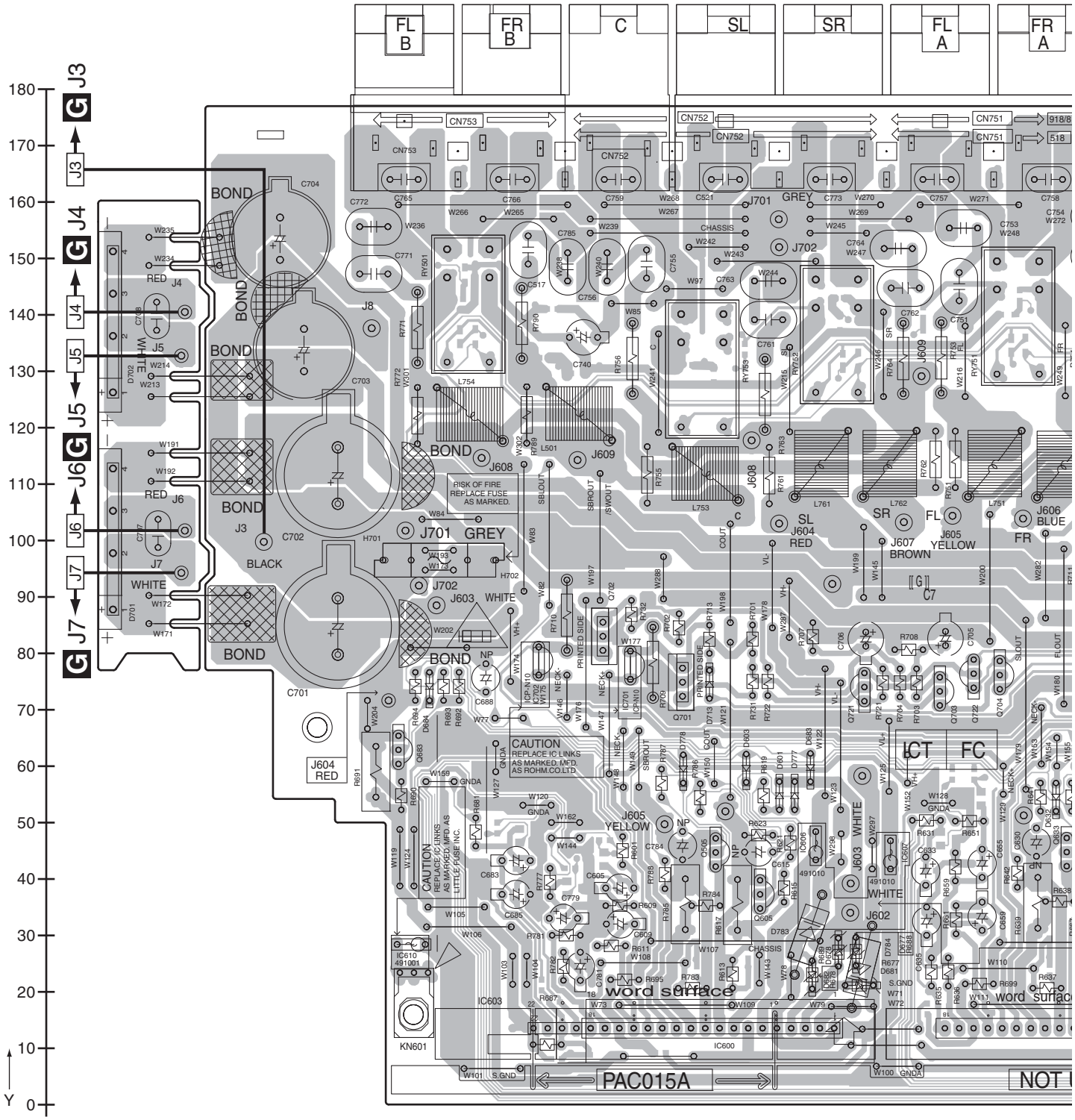
SIDE B


LF
CN107
CN251
CN252
CN122
CN101
CN104
CN102
CN106
CN112
XWK3360
XWK3361
XWK3362
XWK3363
XWK3364
XWK3365
(XNP3127-B)

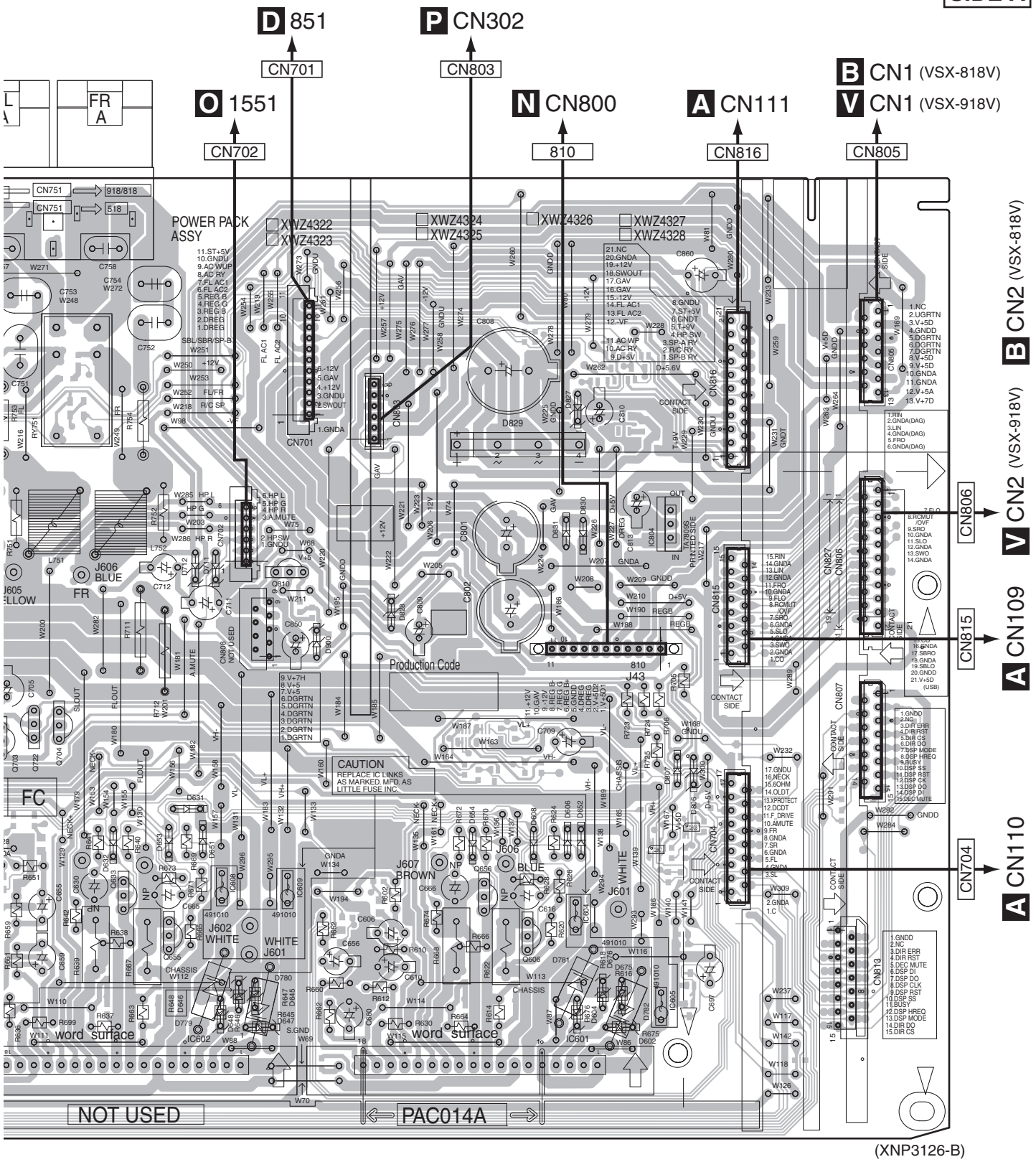
11.3 POWER PACK ASSY

SIDE A

C POWER PACK ASSY

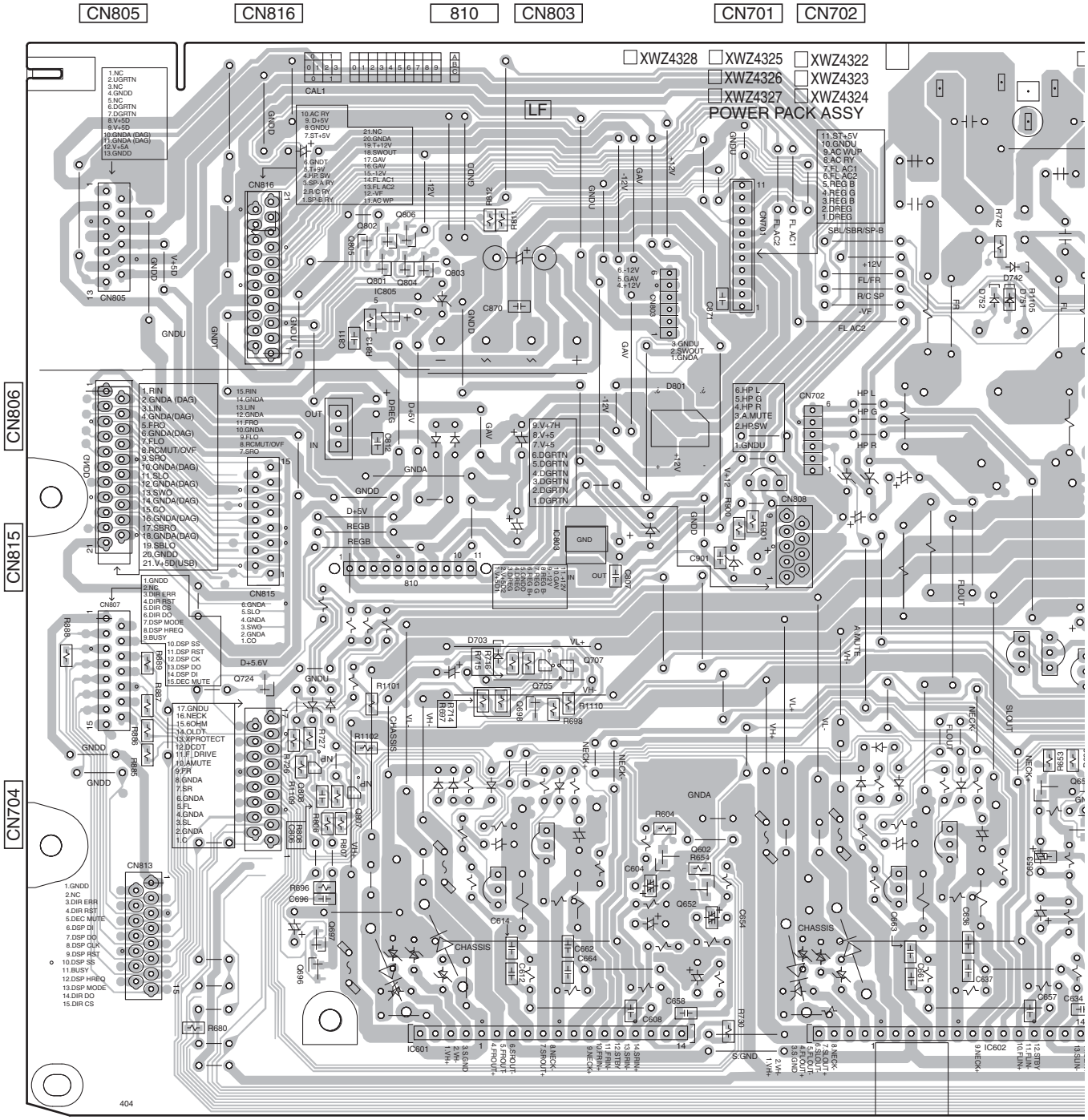


SIDE A


D 851
CN701
P CN302
CN803
O 1551
CN702
N CN800
810
A CN111
CN816
B CN1 (VSX-818V)
V CN1 (VSX-918V)
CN805
POWER PACK ASSY
XWZ4322
XWZ4323
XWZ4324
XWZ4325
XWZ4326
XWZ4327
XWZ4328
B CN2 (VSX-818V)
V CN2 (VSX-918V)
CN806
A CN109
CN815
A CN110
CN704
J606 BLUE
J607 BROWN
J602 WHITE
J601 WHITE
Production Code
CAUTION
REPLACE IC LINKS AS MARKED. MFD. AS LITTLE FUSE INC.
word surface
NOT USED
PAC014A
(XNP3126-B)

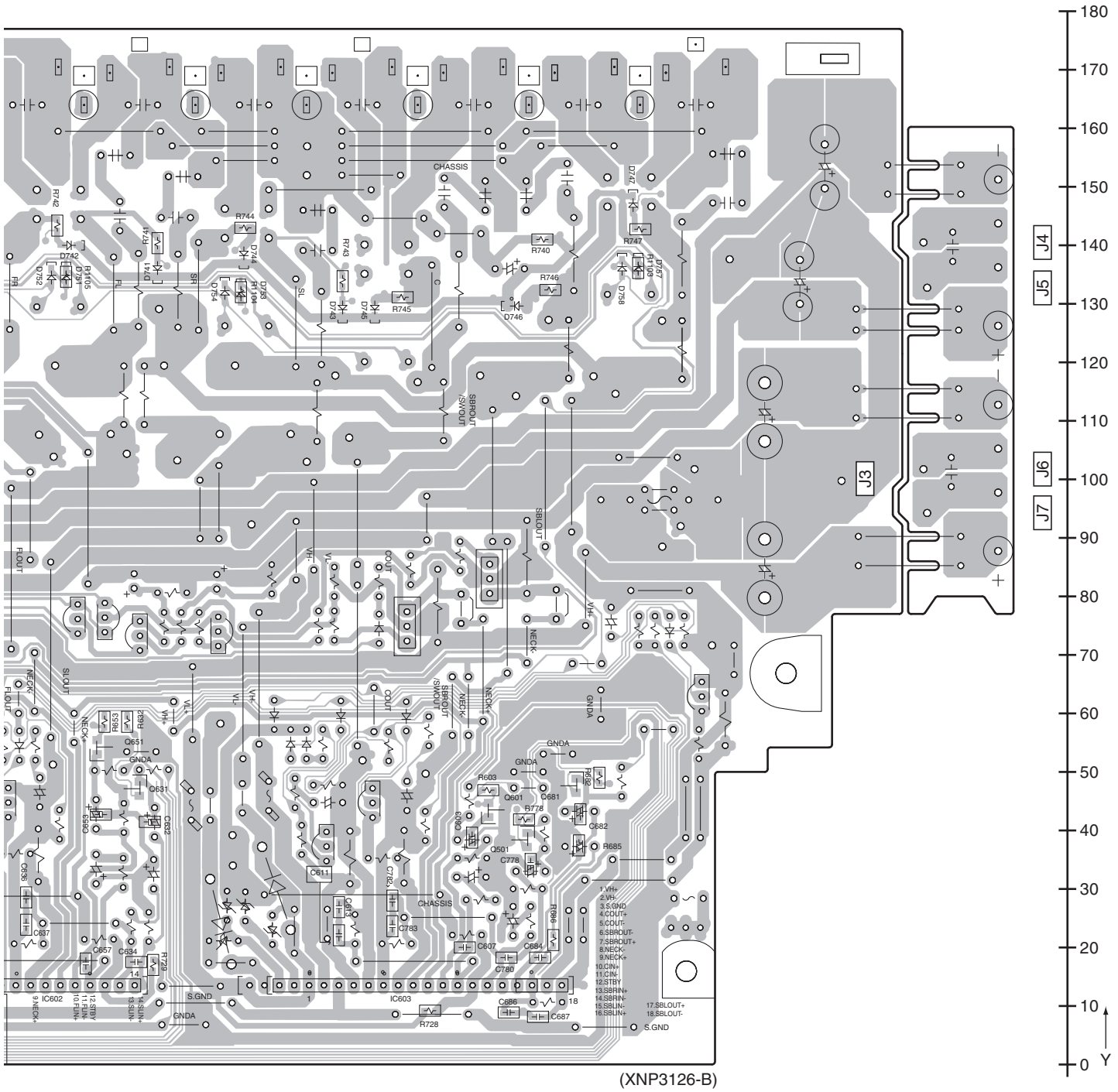
SIDE B

C POWER PACK ASSY



330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160

SIDE B

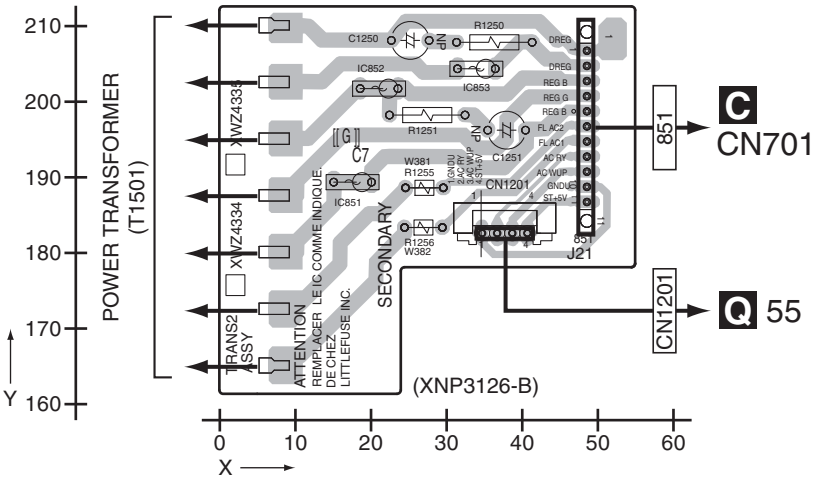


(XNP3126-B)

11.4 TRANS2 and TRANS3 ASSYS

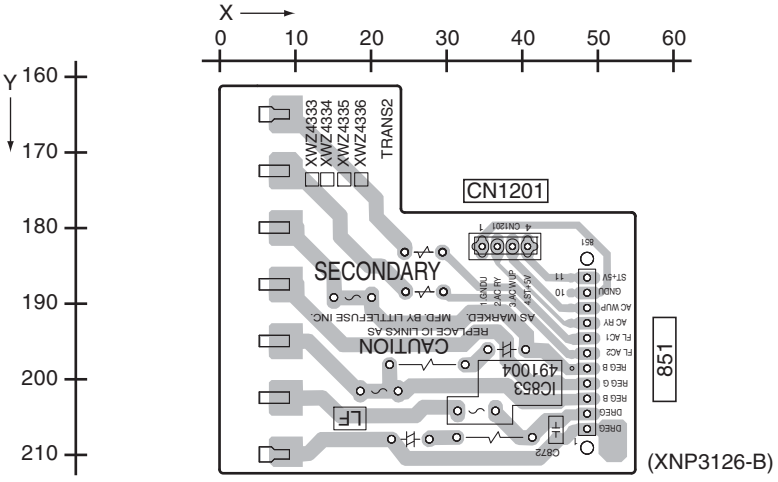
SIDE A

D TRANS2 ASSY



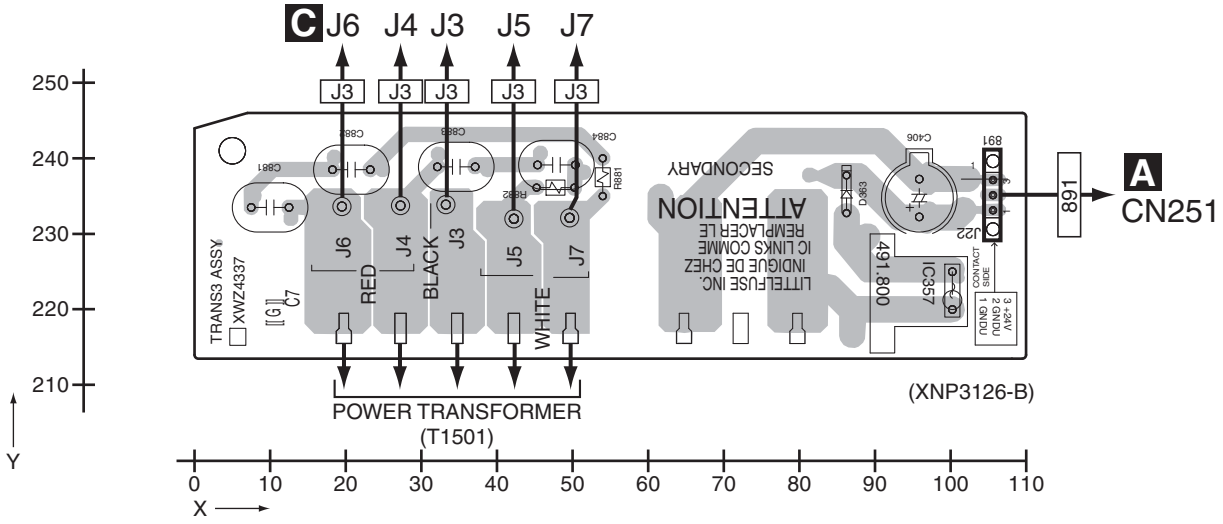
SIDE B

D TRANS2 ASSY



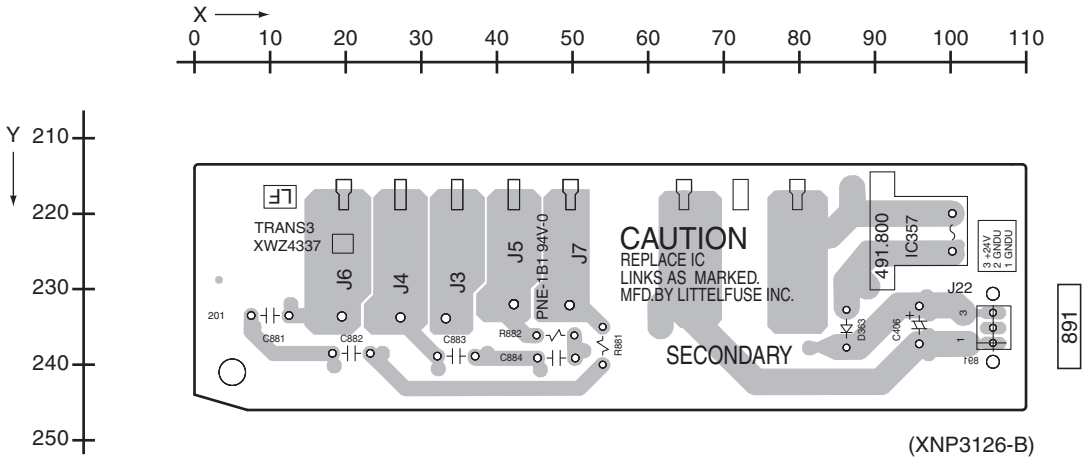
SIDE A

G TRANS3 ASSY



SIDE B

G TRANS3 ASSY

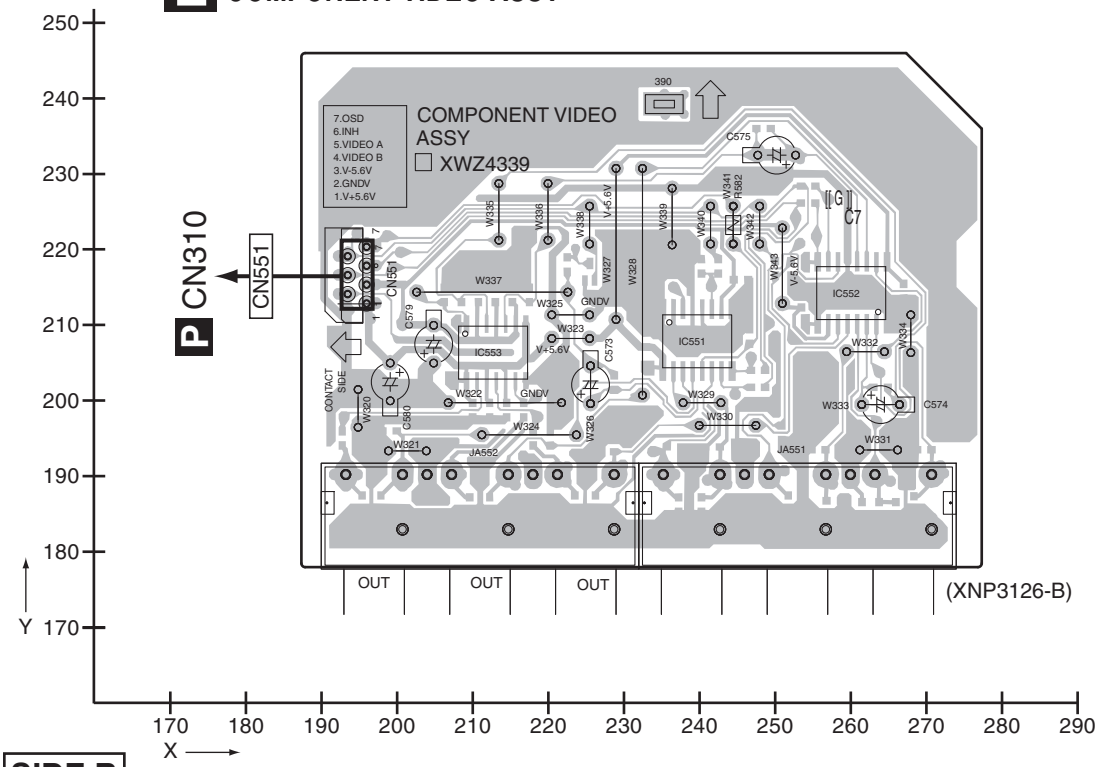


11.5 COMPONENT VIDEO ASSY

SIDE A

SIDE A

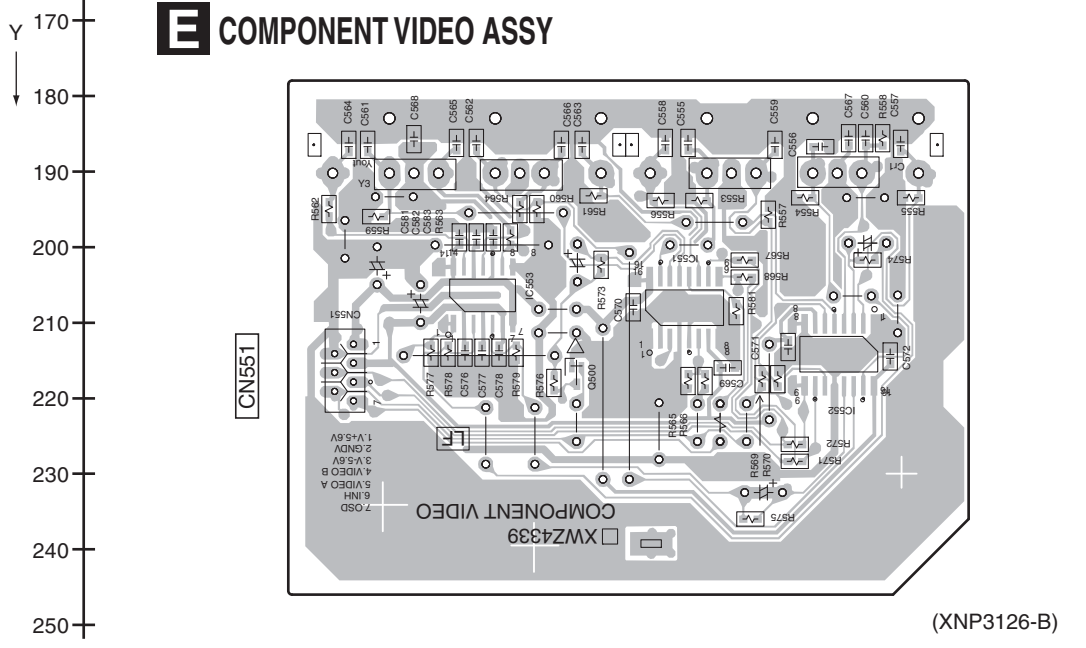
E COMPONENT VIDEO ASSY



SIDE B

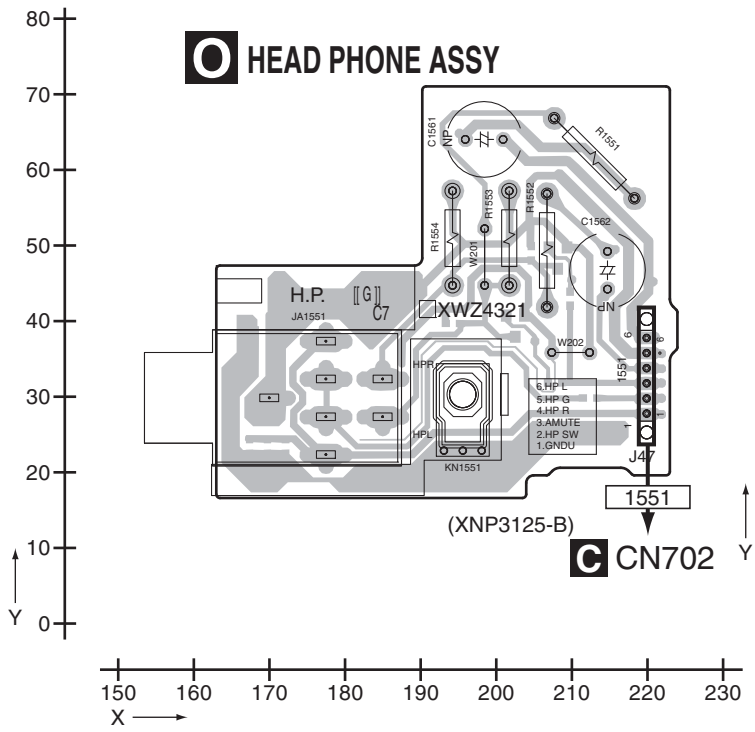
SIDE B

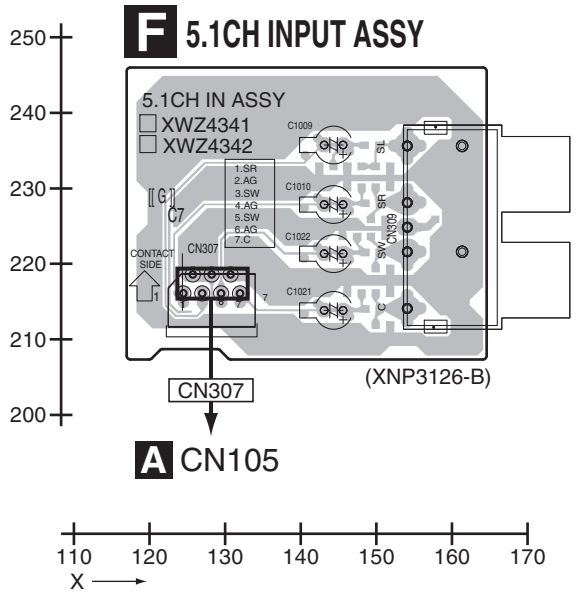
E COMPONENT VIDEO ASSY



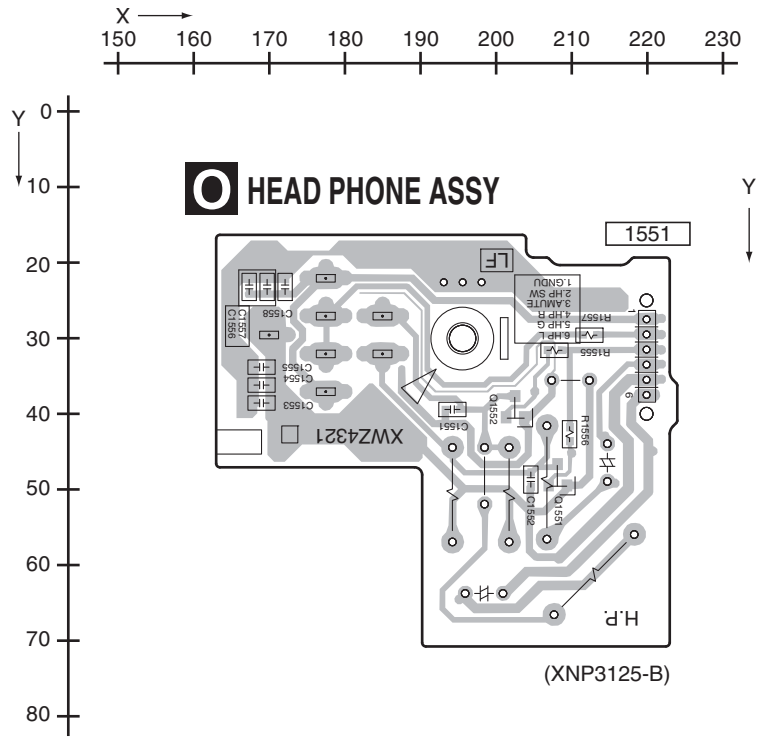
11.6 5.1CH INPUT and HEAD PHONE ASSYS

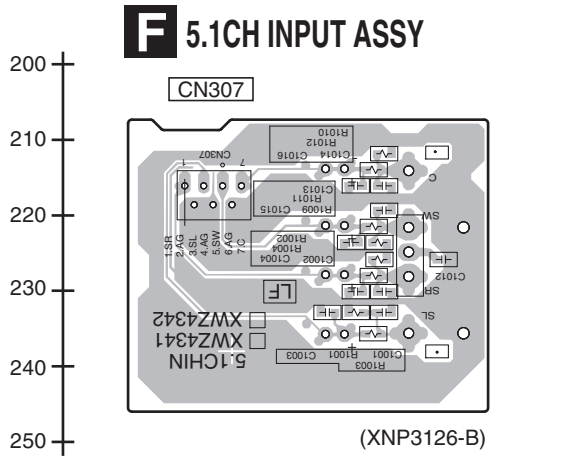
SIDE A





SIDE B



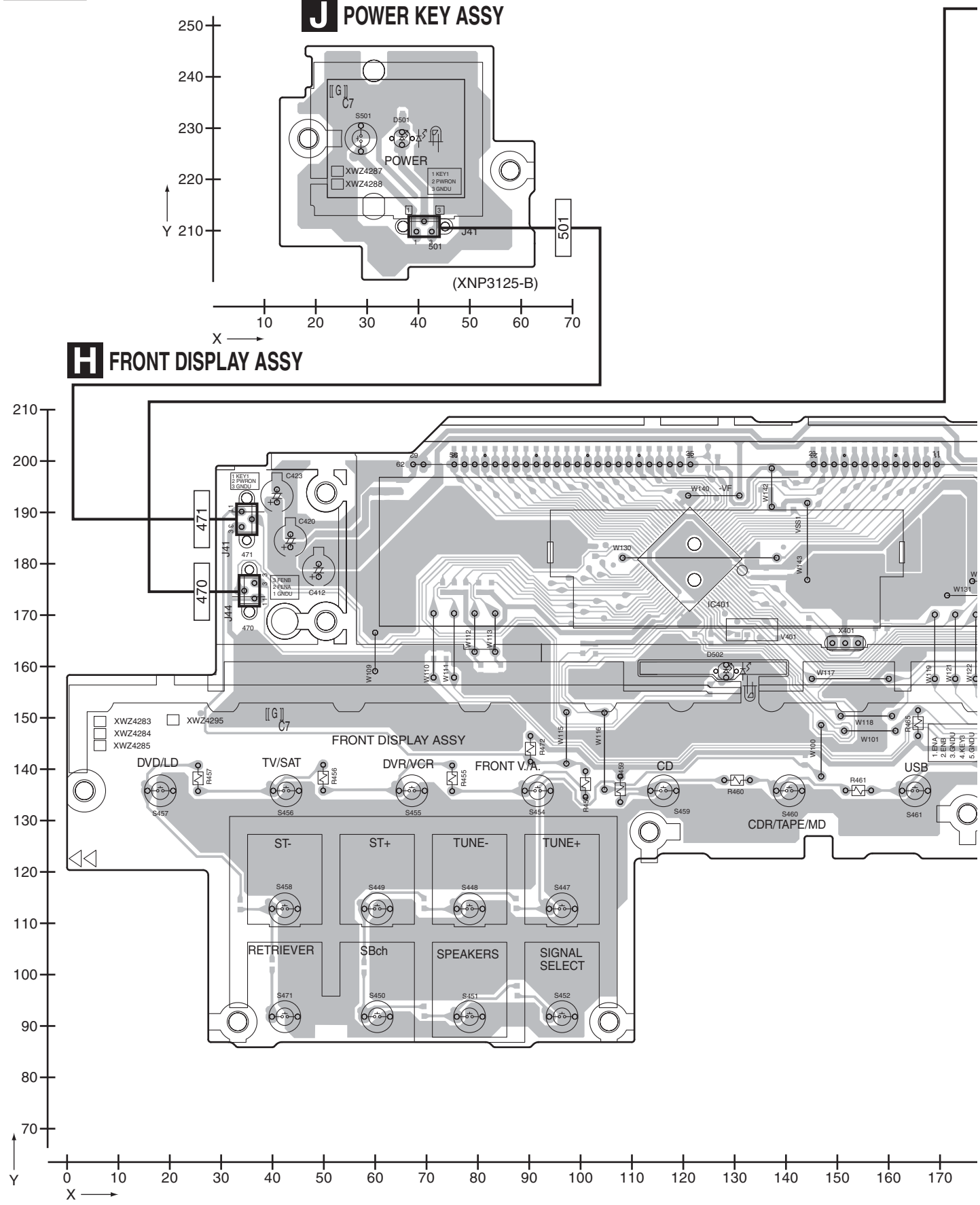


F O

F O

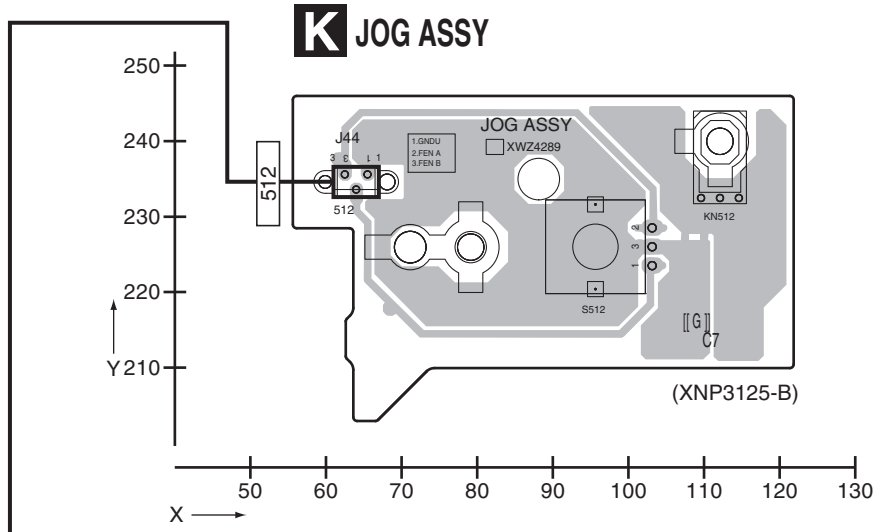
11.7 FRONT DISPLAY, ROTARY ENCODER, POWER KEY and JOG ASSYS

SIDE A



H J

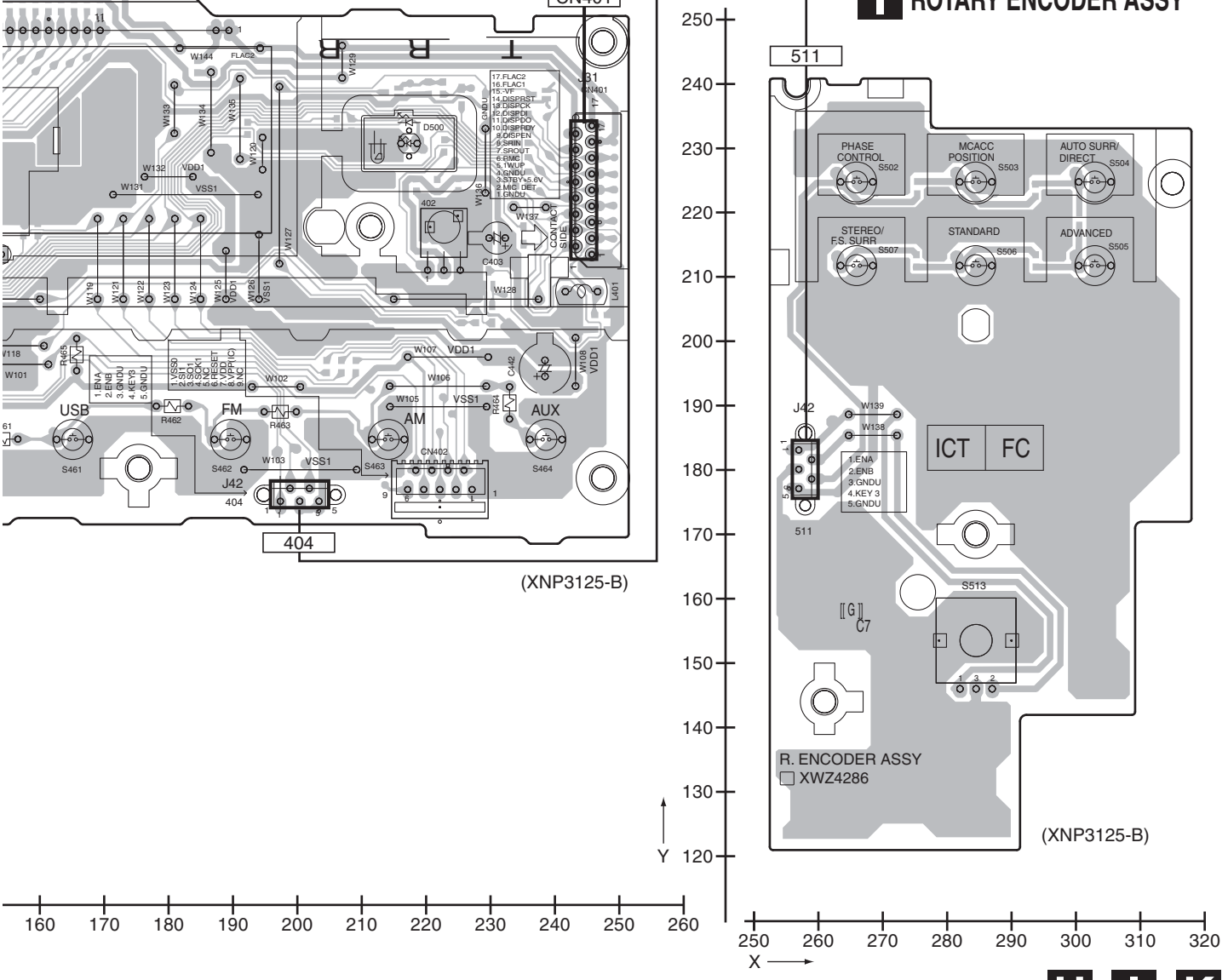
K JOG ASSY



A CN101

(XNP3125-B)

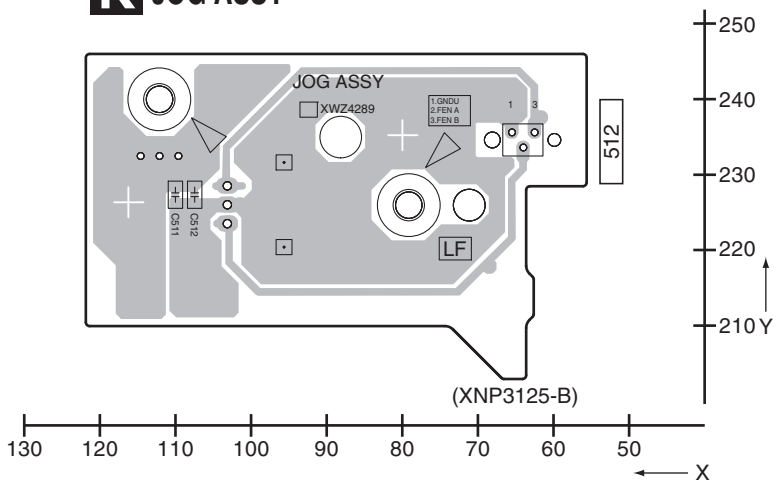
I ROTARY ENCODER ASSY



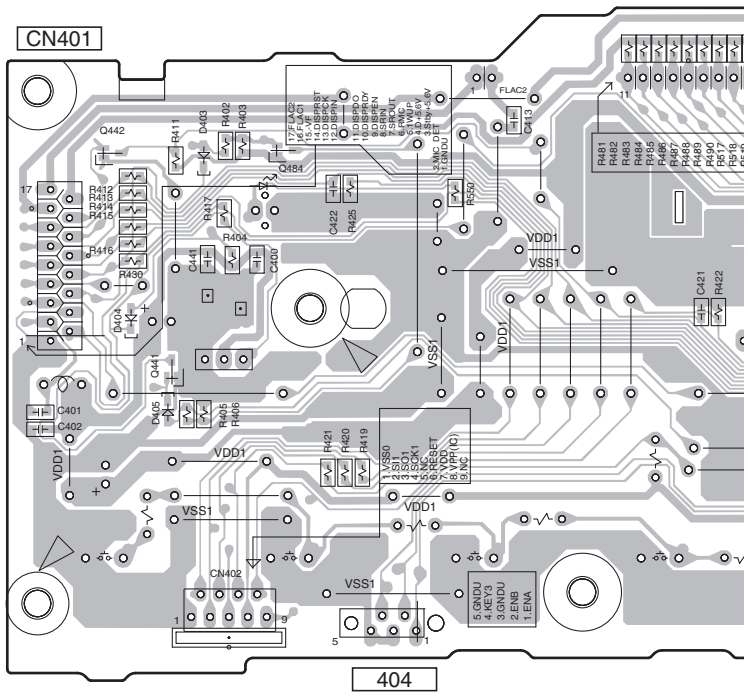
H I K

SIDE B

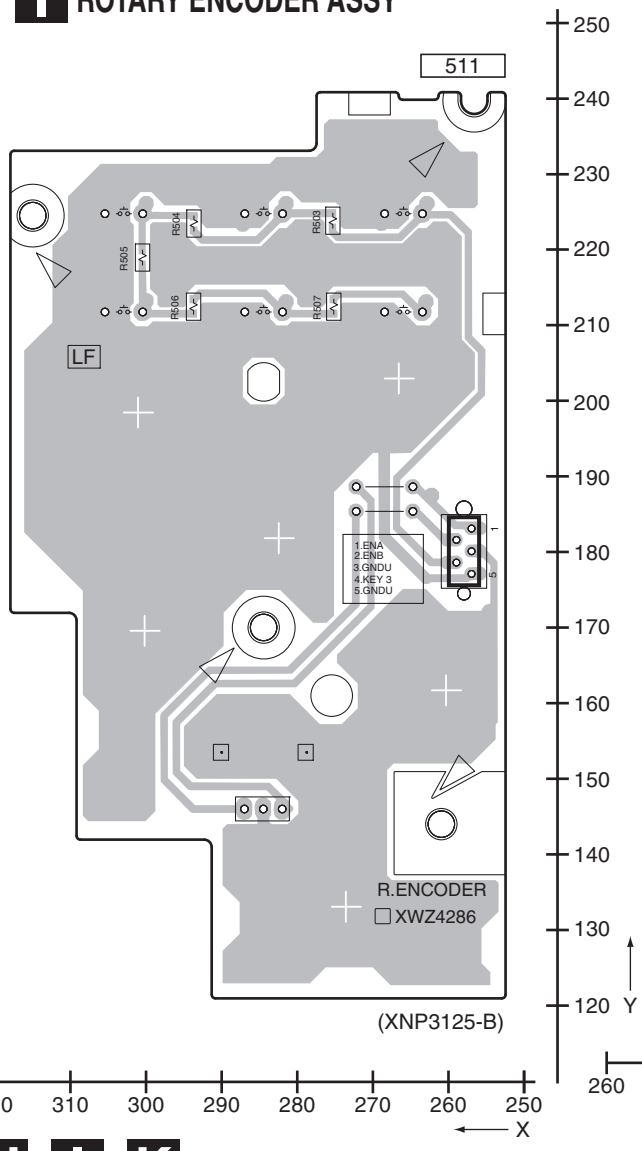
K JOG ASSY



H FRONT DISPLAY ASSY

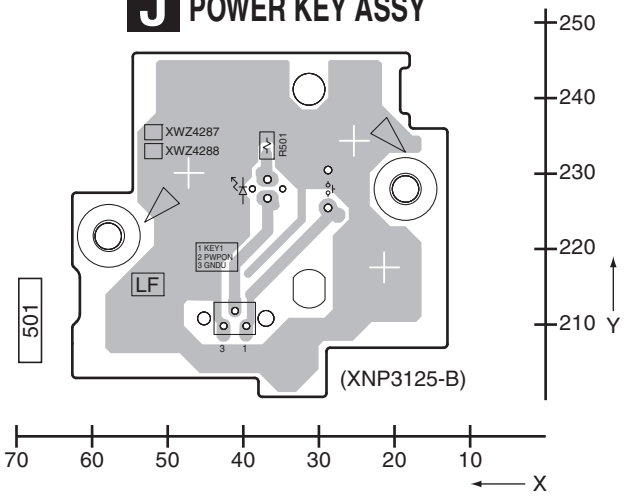


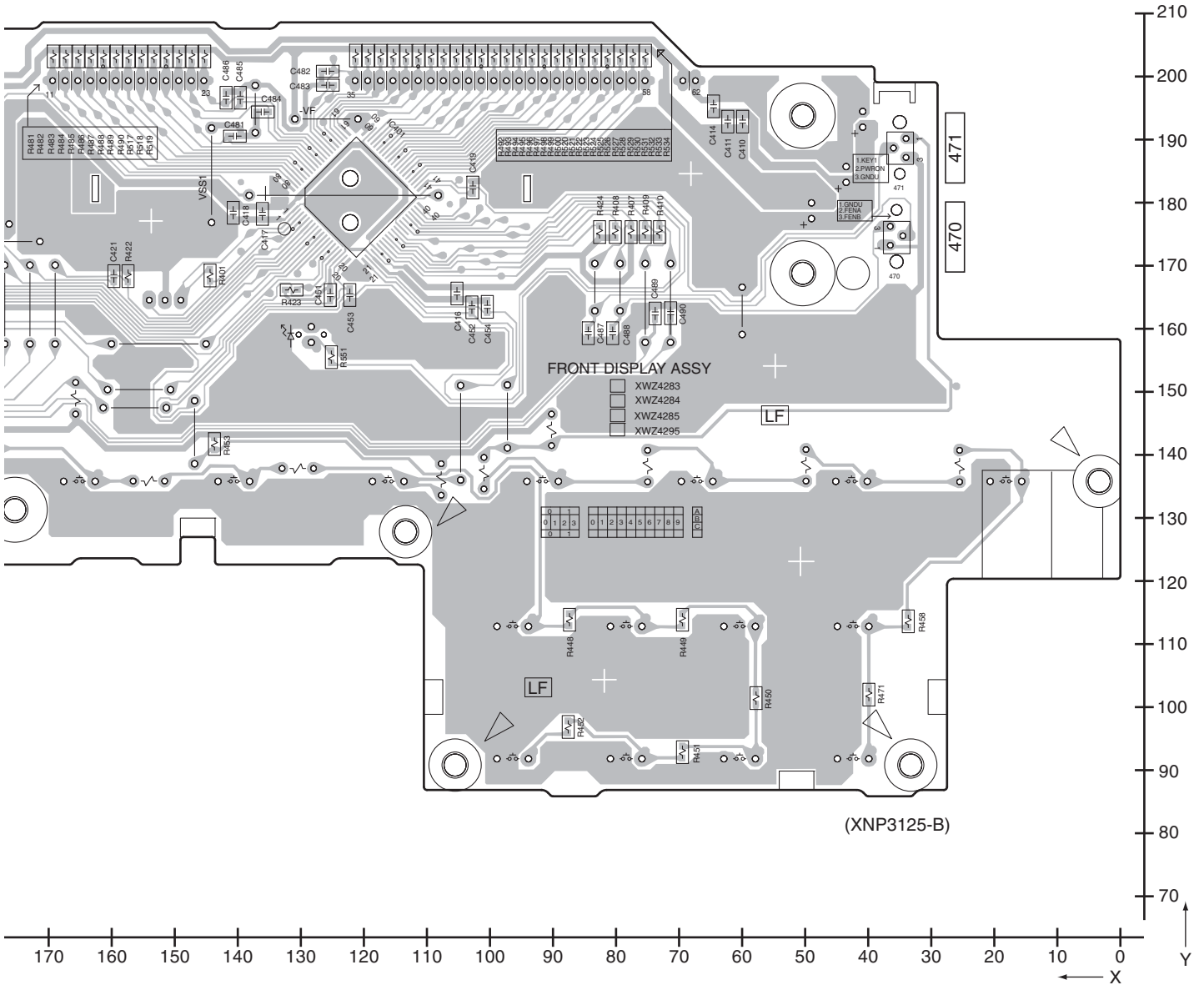
I ROTARY ENCODER ASSY



SIDE B

J POWER KEY ASSY



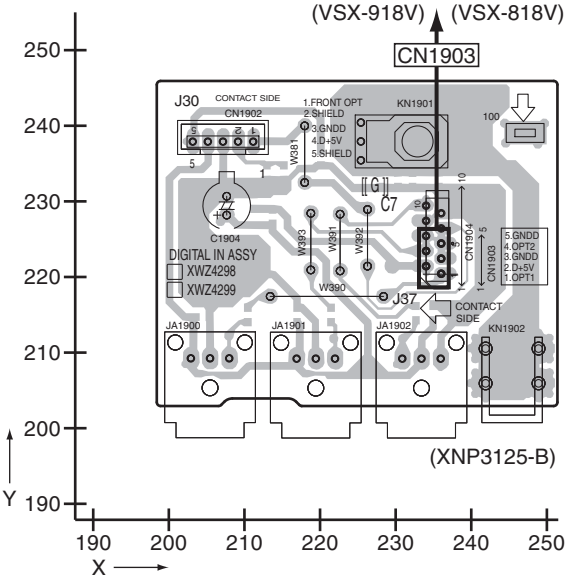


11.8 DIGITAL INPUT and FRONT VIDEO ASSYS

SIDE A

M DIGITAL INPUT ASSY

V CN5 (VSX-918V) **B** CN5 (VSX-818V)

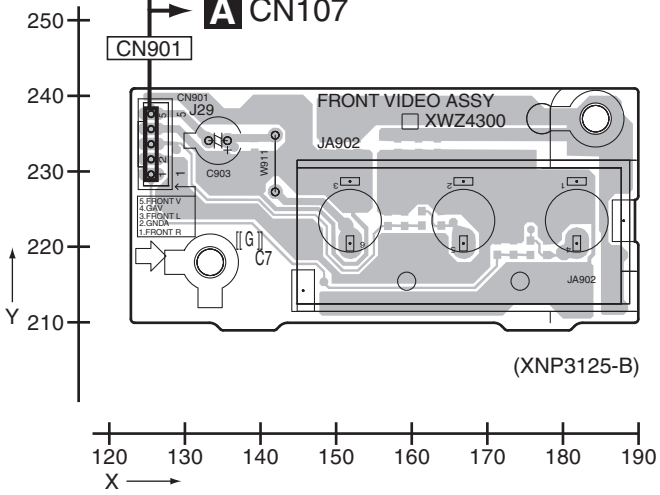


(XNP3125-B)

R FRONT VIDEO ASSY

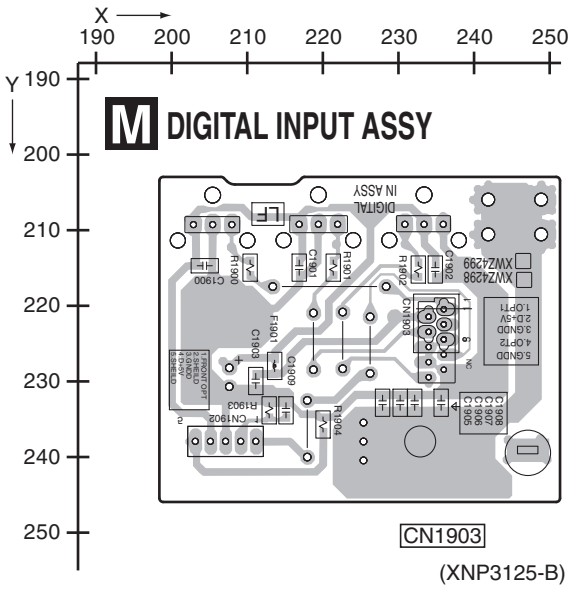
P CN354

A CN107

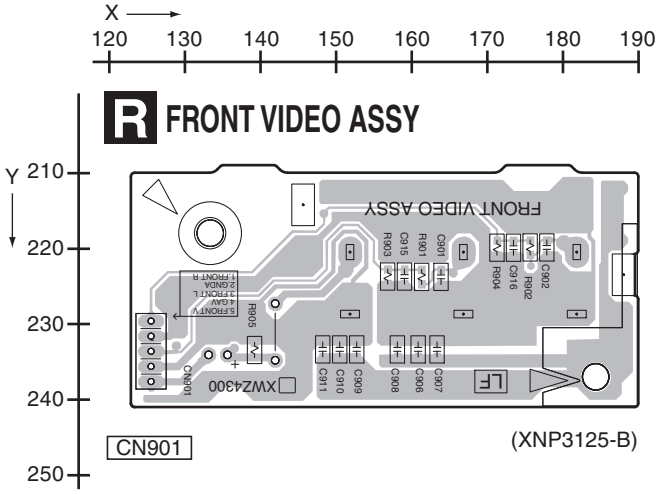


(XNP3125-B)

SIDE B



(XNP3125-B)

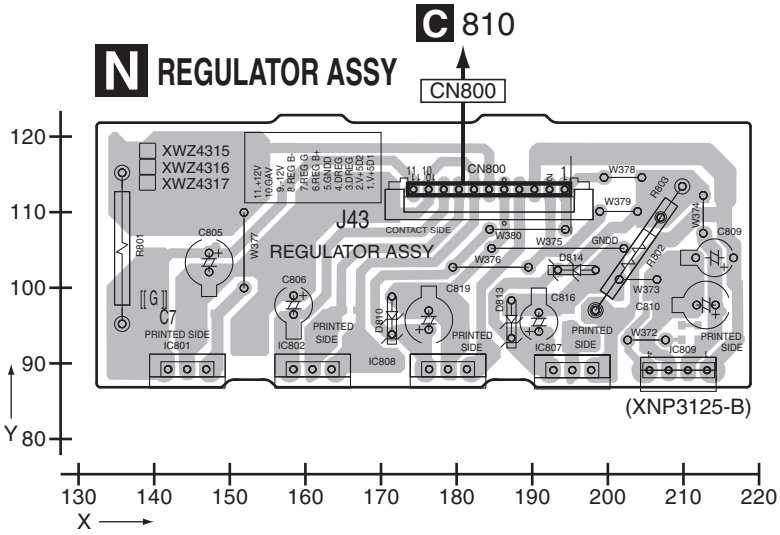


(XNP3125-B)

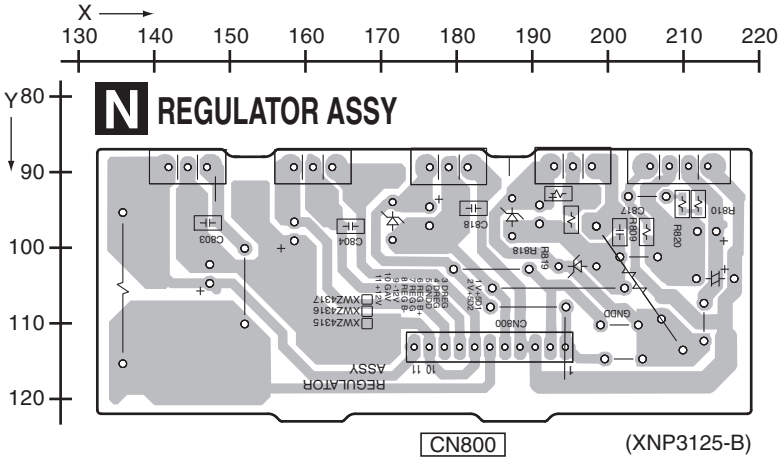
M **R**

11.9 REGULATOR ASSY

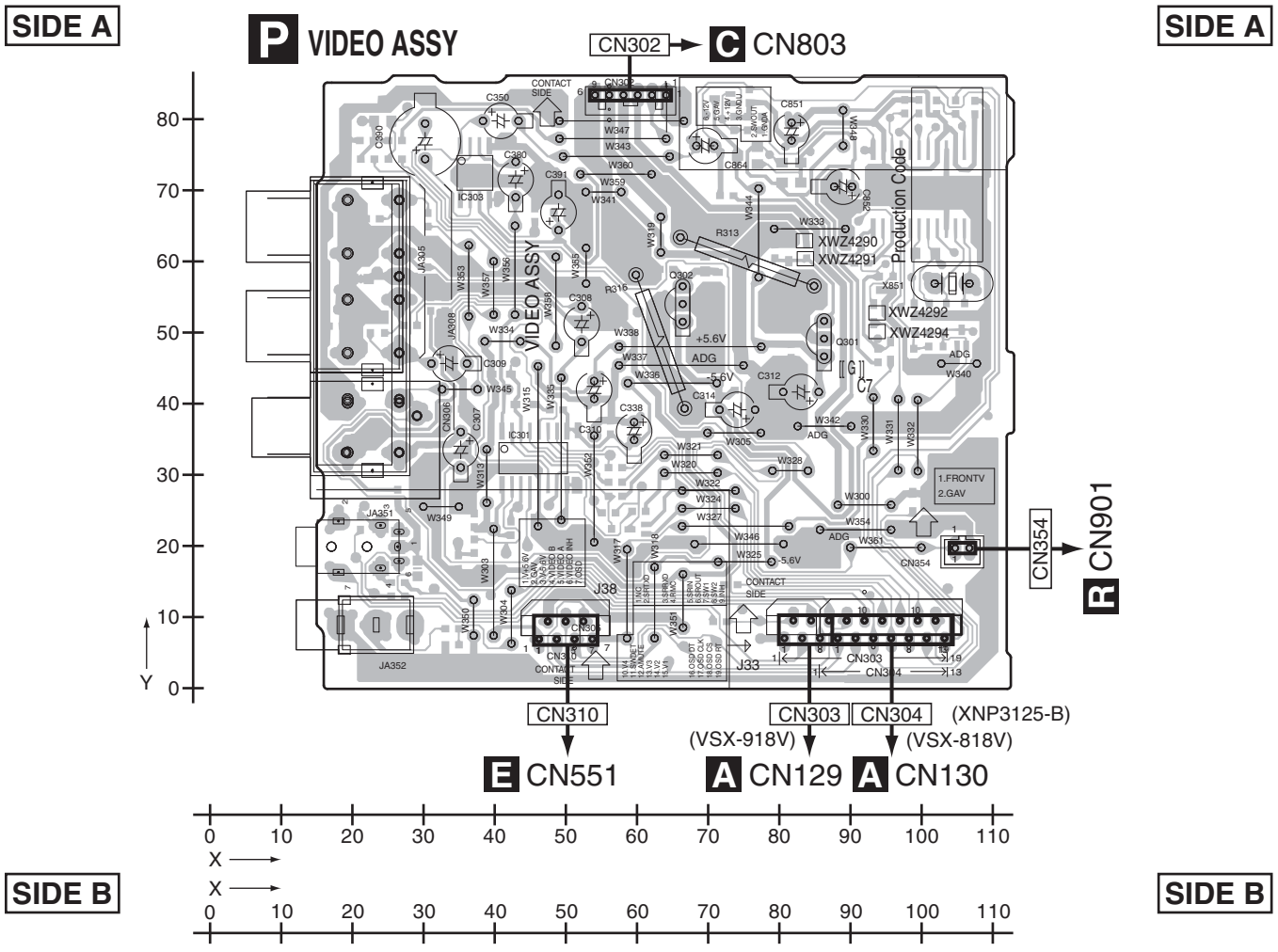
SIDE A

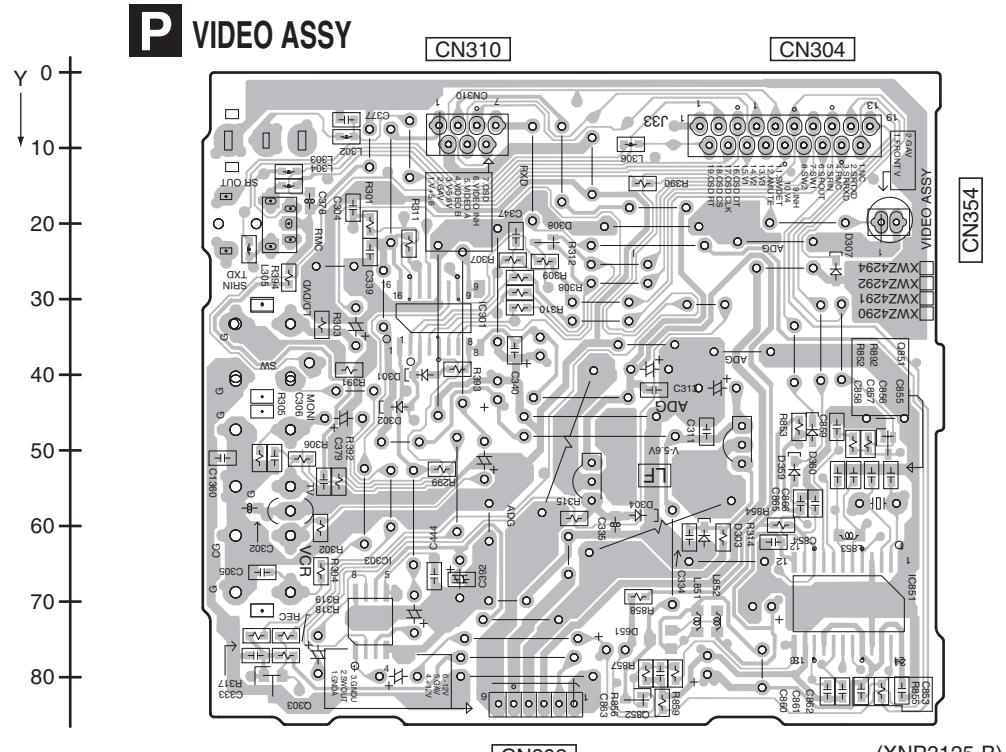


SIDE B



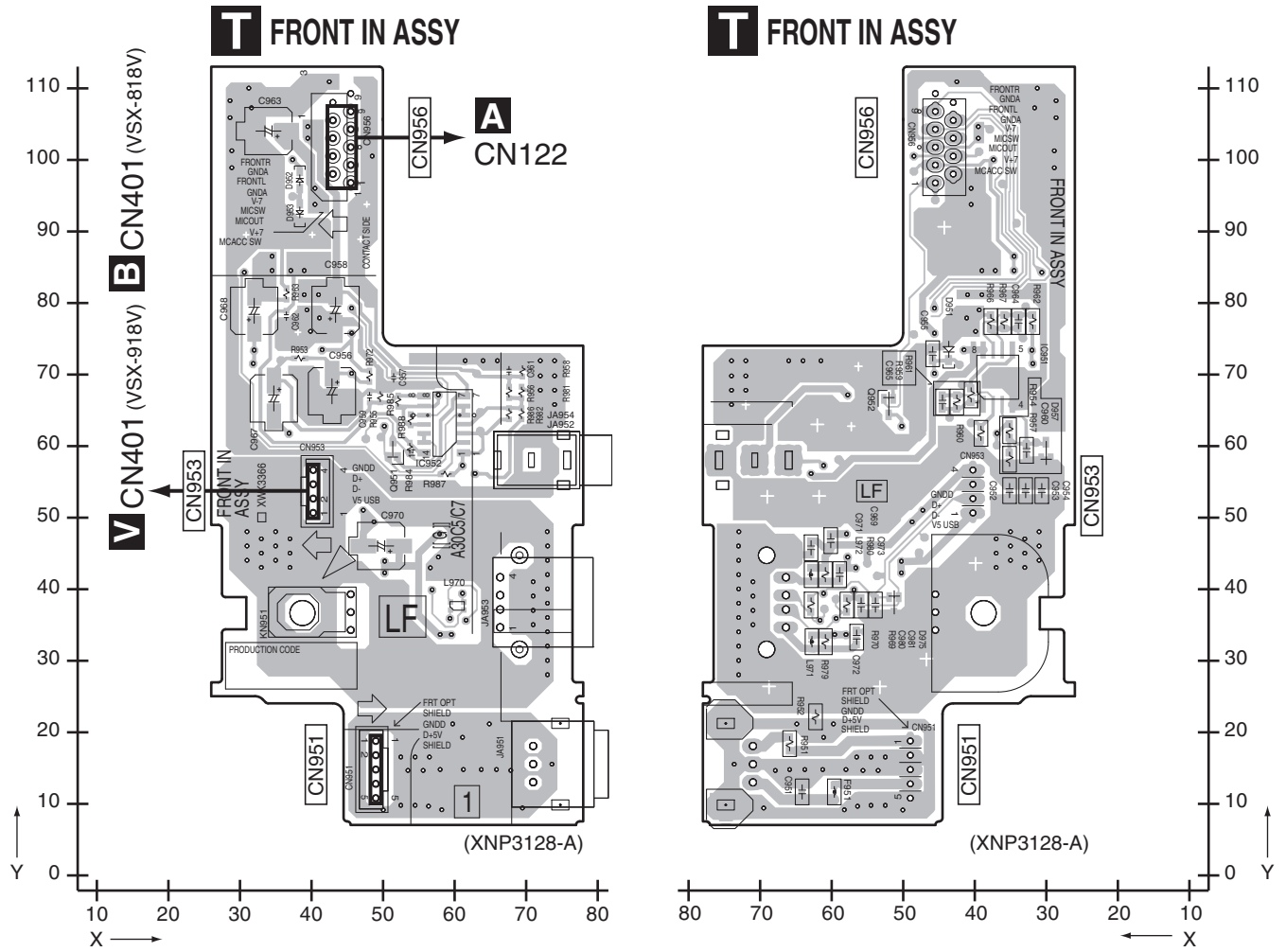
11.10 VIDEO ASSY





11.11 FRONT IN ASSY

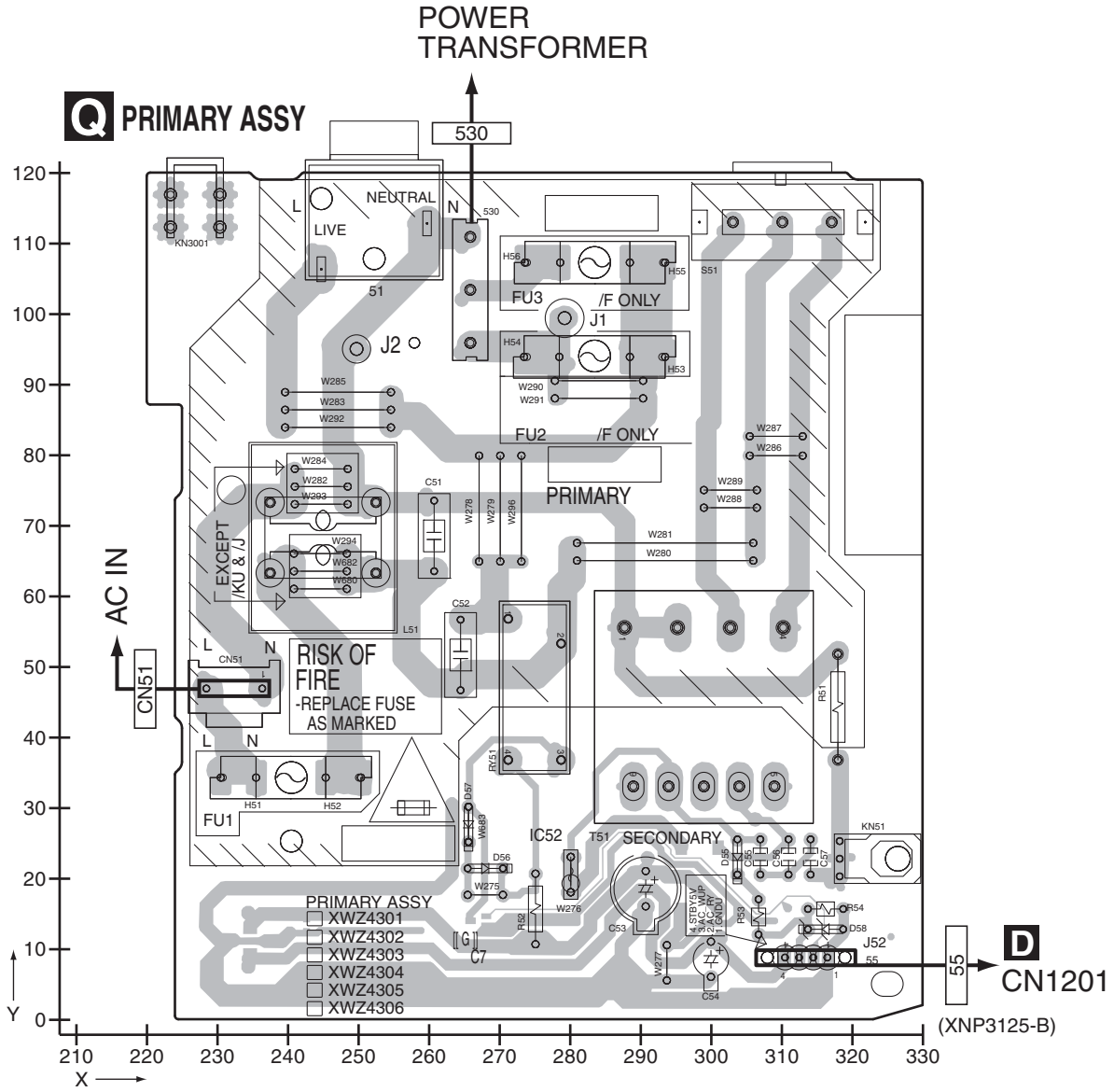
SIDE A **SIDE B**



11.12 PRIMARY ASSY

SIDE A

SIDE A

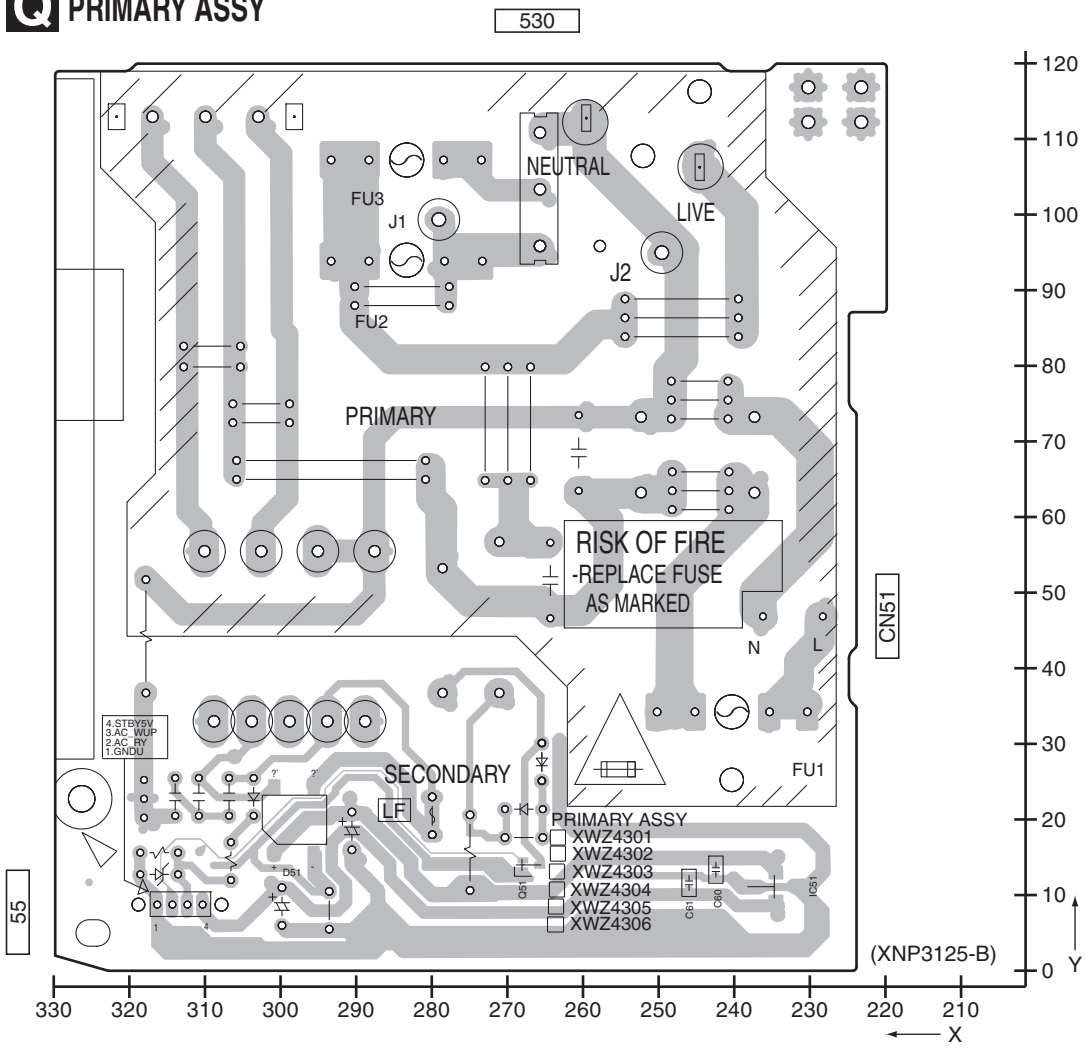


SIDE B

SIDE B

A B C D E F

Q PRIMARY ASSY

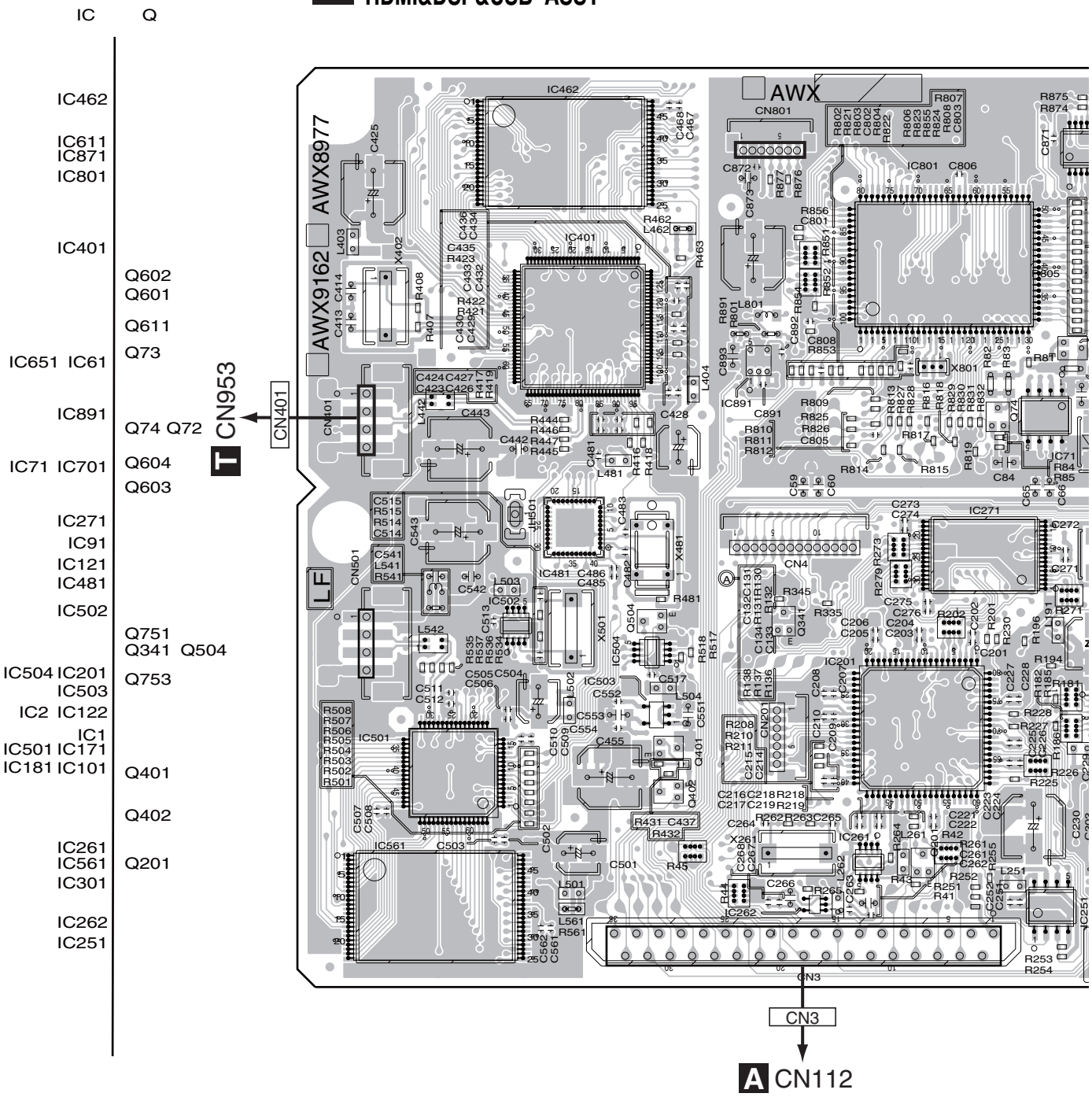


5 6 7 8

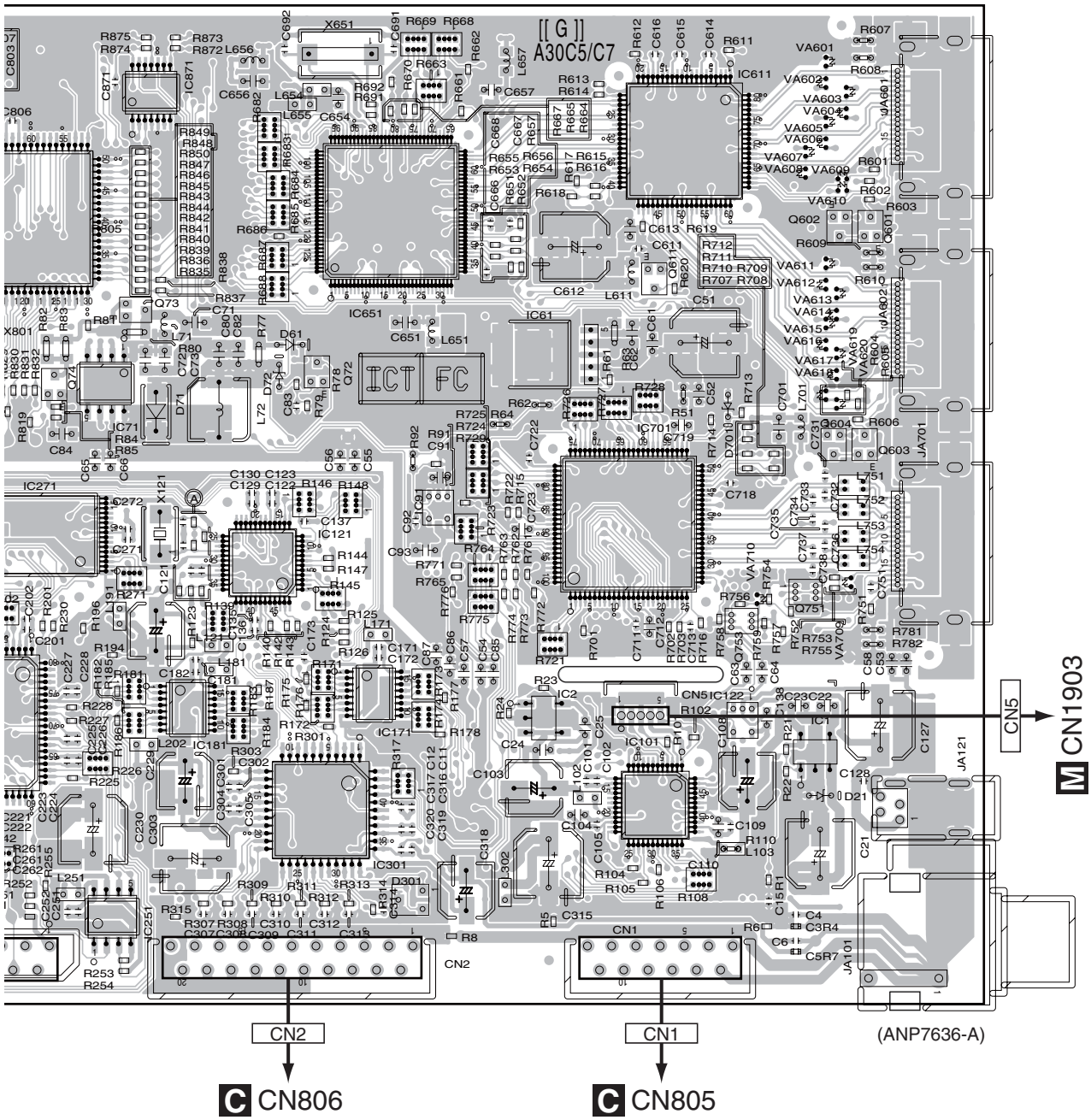
11.13 HDMI & DSP & USB ASSY

SIDE A

V HDMI&DSP&USB ASSY



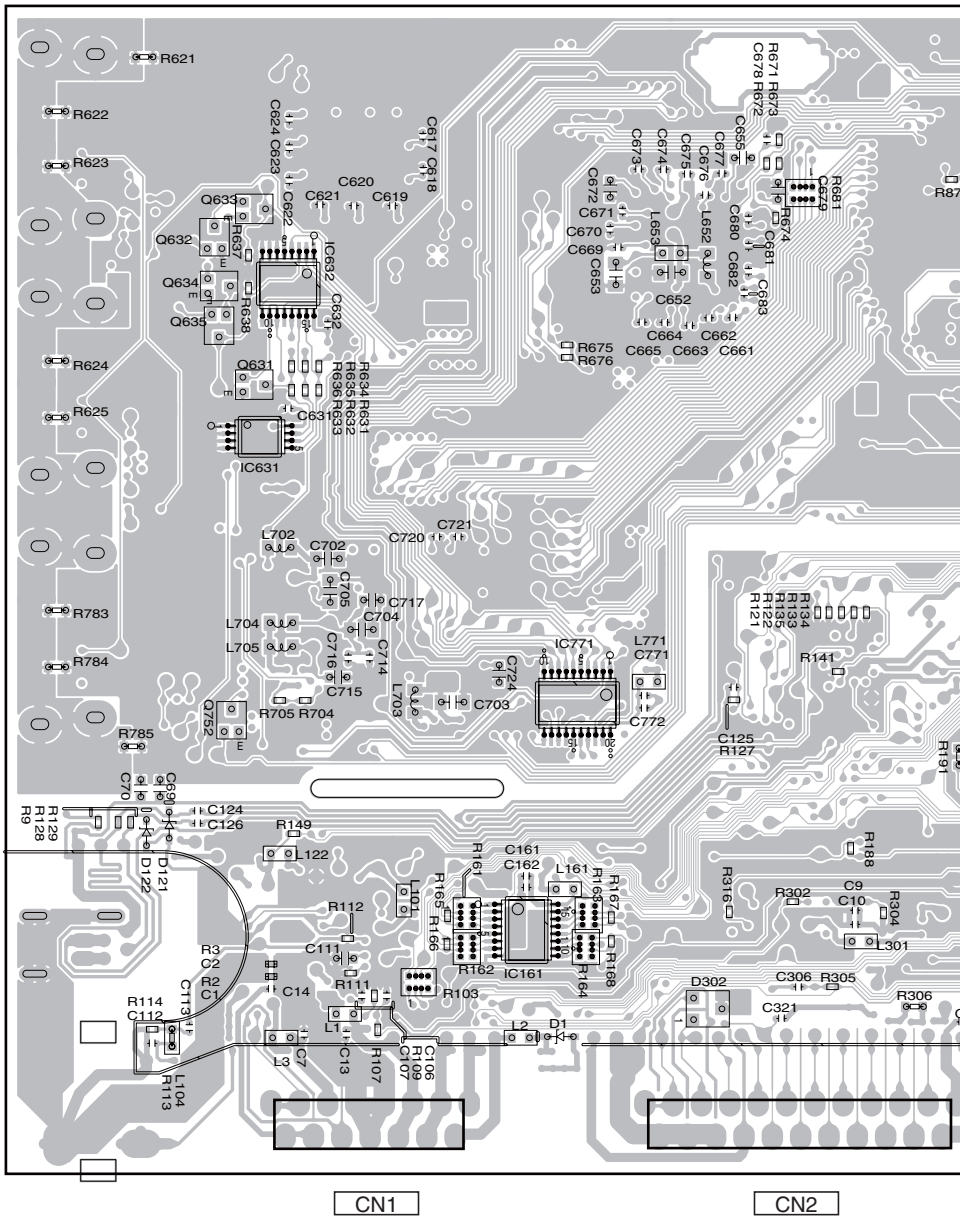
SIDE A



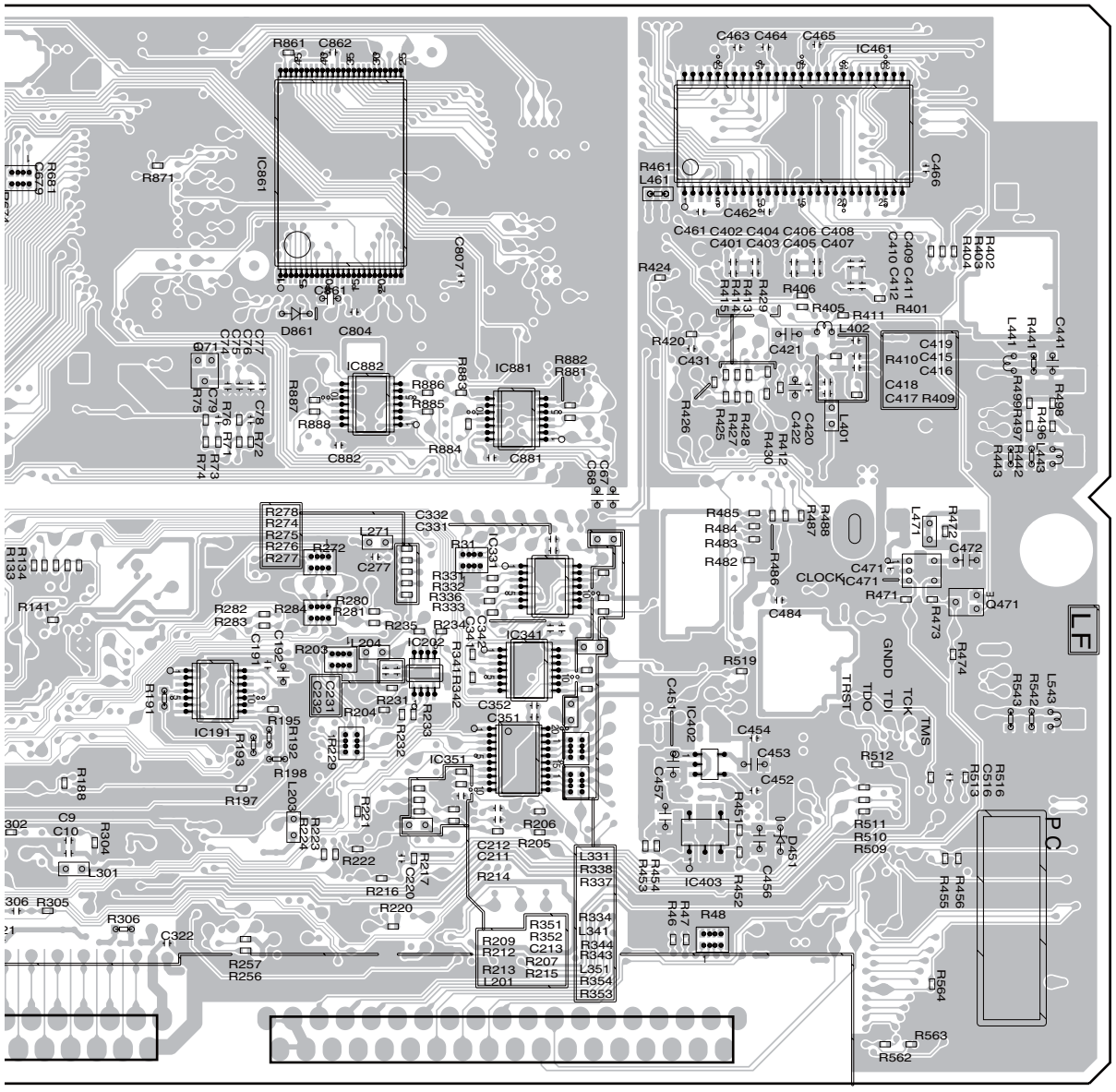
SIDE B

V HDMI&DSP&USB ASSY

IC	Q
IC461	
IC861	
	Q633
IC632	Q632
	Q634
	Q635
	Q631
IC882 IC881	Q71
IC631	
IC331	
IC471	
IC771	Q471
IC341	Q752
IC202	
IC402	
IC191	
IC351	
IC403	
IC161	



SIDE B



(ANP7636-A)

12. ELECTRICAL PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 x 10^3 → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^1 → 5621 ..... RN1/4PC 5 6 2 1 F

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN ASSY (VSX-918V)	XWK3363
	1	MAIN ASSY (VSX-818V)	XWK3359
	1	HDMI & DSP & USB ASSY (VSX-918V)	AWX8977
	1	HDMI ASSY (VSX-818V)	AWX8966
	1	DSP & USB ASSY (VSX-818V)	AWX9164
NSP	1	AMP ASSY	XWK3349
	2	POWER PACK ASSY	XWZ4326
	2	TRANS2 ASSY	XWZ4335
	2	TRANS3 ASSY	XWZ4337
	2	COMPONENT VIDEO ASSY	XWZ4339
	2	5.1CH INPUT ASSY	XWZ4341
	2	BIND ASSY	XWZ4344
NSP	1	COMPLEX ASSY (VSX-918V)	XWK3341
NSP	1	COMPLEX ASSY (VSX-818V)	XWK3336
	2	FRONT DISPLAY ASSY (VSX-918V)	XWZ4285
	2	FRONT DISPLAY ASSY (VSX-818V)	XWZ4284
	2	ROTARY ENCODER ASSY	XWZ4286
	2	POWER KEY ASSY (VSX-918V)	XWZ4288
	2	POWER KEY ASSY (VSX-818V)	XWZ4287
	2	JOG ASSY	XWZ4289
	2	VIDEO ASSY (VSX-918V)	XWZ4294
	2	VIDEO ASSY (VSX-818V)	XWZ4292
	2	DIGITAL INPUT ASSY	XWZ4299
	2	FRONT VIDEO ASSY	XWZ4300
	2	PRIMARY ASSY	XWZ4302
	2	REGULATOR ASSY	XWZ4317
	2	HEAD PHONE ASSY	XWZ4321
	1	FRONT IN ASSY	XWK3366
	1	FM/AM TUNER UNIT	AXX7170

CONTRAST OF PCB ASSEMBLIES

A MAIN ASSY

XWK3363 and XWK3359 are constructed the same except for the following:

Mark	Symbol and Description	XWK3363	XWK3359
	IC9001	PEG469A8	PEG467A8
	D9067	1SS355	Not used
	CN130 13P FFC Connector	Not used	9604S-13C
	CN104 7P FFC Connector	Not used	9604S-07C
	CN112 FFC Connector	9604S-35C	CKS3392
	CN129 19P FFC Connector	9604S-19C	Not used
	R9024, R9063	RS1/16S103J	Not used
	R9025	RS1/16S332J	RS1/16S562J
	R9026	Not used	RS1/16S103J
	R9027, R9029	RS1/16S221J	Not used
	R9097	Not used	RS1/16S0R0J
	R9098	RS1/16S0R0J	Not used

H FRONT DISPLAY ASSY

XWZ4285 and XWZ4284 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4285	XWZ4284
	Q441	RT1N241M	Not used
	D404, D405	1SS355	Not used
	D502	SLR343BC4T(JKLM)	Not used
	R404	RS1/16S472J	Not used
	R430	Not used	RS1/16S0R0J
	R551	RS1/16S391J	Not used

J POWER KEY ASSY

XWZ4288 and XWZ4287 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4288	XWZ4287
	D501	SLR343BC4T(JKLM)	Not used
	R501	RS1/16S391J	Not used

P VIDEO ASSY

XWZ4294 and XWZ4292 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4294	XWZ4292
	L302-L306 Chip Solid Inductor	QTL1013	Not used
	CN303 Connector	9604S-19C	Not used
	CN304 13P FFC Connector	Not used	9604S-13C
	JA351 Mini Jack(4P) /W SW	XKN3015	Not used
	JA352 Jack	VKB1243	Not used
	R394	RS1/16S0R0J	Not used
	C379	CKSRYB103K50	Not used

PCB PARTS LIST FOR VSX-918V/MYSXJ5 UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.
		COMPLEX ASSY	
		MISCELLANEOUS	
J	41	JUMPER WIRE	D15A03-100-2651
J	42	JUMPER WIRE	D15A05-125-2651
J	44	JUMPER WIRE	D15A03-100-2651
		A MAIN ASSY	
		MISCELLANEOUS	
IC	103	(A,215,73) DUAL OP-AMP	NJM4565MD
IC	104	(A,198,56) DUAL OP-AMP	NJM4565MD
IC	105	(A,217,87) DUAL OP-AMP	NJM4565MD
IC	108	(B,253,65) 6CH E-VOL IC	BD3474KS2
IC	251	(A,134,89) DUAL OP-AMP	NJM4565MD
IC	5001	(A,69,19) RDS DECORDER IC	LC72725KM
IC	6001	(A,135,20) IC	TC74VHCT125AFTS1
IC	9001	(B,82,64) SYSTEM CONTROL MICON	PEG469A8
IC	9002	(A,104,42) EEPROM	BR24L16FV-W
IC	9004	(A,128,49) LOGIC IC	TC4094BFN
Q	248	(A,53,103) TRANSISTOR	2SC4081
Q	249	(A,61,107) TRANSISTOR	RT1N241M
Q	250	(A,60,112) TRANSISTOR	2SC4081
Q	252	(A,65,105) TRANSISTOR	2SD1858X
Q	253	(A,53,99) TRANSISTOR	RT1N241M
Q	254	(B,61,103) DIGITAL TR(SC-70)	RT1P241M
Q	255	(A,61,99) TRANSISTOR	2SC4081
Q	256	(A,61,95) CHIP TRANSISTOR	2SD2704K
Q	257	(A,76,112) TRANSISTOR	2SA1576A
Q	259	(B,61,108) DIGITAL TR(SC-70)	RT1P241M
Q	260	(A,56,107) TRANSISTOR	2SC4081
Q	361	(A,181,72) TRANSISTOR	2SC5938A
Q	6001	(A,140,24) TRANSISTOR	RT1N241M
Q	9001	(A,91,94) DIGITAL TR(SC-70)	RT1N431M
Q	9002	(A,66,80) DIGITAL TR(SC-70)	RT1P241M
Q	9003	(A,65,75) DIGITAL TR(SC-70)	RT1P241M
Q	9007	(A,69,85) TRANSISTOR	DTC143TK
Q	9064	(A,59,80) DIGITAL TR(SC-70)	RT1P241M
Q	9065	(A,55,78) TRANSISTOR	UMD2N
D	103	(B,177,35) DIODE	DAN217U
D	105	(B,170,35) DIODE	DAN217U
D	107	(B,174,37) DIODE	DAN217U
D	251	(A,138,88) DIODE	DAN217U
D	253	(B,55,108) DIODE	UDZS13(B)
D	254	(A,72,113) DIODE	UDZS5R1(B)
D	255	(B,53,109) DIODE	UDZS13(B)
D	311	(B,258,96) DIODE	1SS355
D	312	(B,269,98) DIODE	1SS355
D	331	(B,254,91) DIODE	UDZS6R8(B)
D	332	(B,271,91) DIODE	UDZS6R8(B)
D	6001	(A,146,21) DIODE	1SS355
D	9006	(B,99,89) DIODE	DAN217U
D	9007	(B,91,89) DIODE	DAN217U

Mark	No.		Description	Part No.
D	9010	(A,97,93)	DIODE	1SS355
D	9011	(A,60,75)	DIODE	DAN202U
D	9064	(A,58,75)	DIODE	DAP202U
D	9065	(A,63,80)	DIODE	DAP202U
D	9067	(B,45,72)	DIODE	1SS355
D	9068	(A,50,81)	DIODE	1SS355
L	101	(B,260,98)	CHIP SOLID INDUCTOR	QTL1013
L	102	(B,267,97)	CHIP SOLID INDUCTOR	QTL1013
L	5002	(A,257,104)	CHIP SOLID INDUCTOR	QTL1013
L	9001	(A,124,102)	CHIP SOLID INDUCTOR	ATL7002
L	9002	(A,120,103)	CHIP SOLID INDUCTOR	ATL7002
L	9003	(A,86,97)	RADIAL INDUCTOR	LFCA2R2J
X	5001	(A,67,27)	CRYSTAL RESONATOR (4.332 MHz)	ASS7004
X	9001	(A,96,53)	CERAMIC RESONATOR (15.7 MHz)	XSS3004
CN	101	(A,41,27)	CONNECTOR	9604S-17C
CN	102	(A,113,61)	CONNECTOR	9604S-10C
CN	103	(A,227,17)	11P CONNECTOR	52044-1145
CN	105	(A,266,34)	CONNECTOR	9604S-07C
CN	107	(A,39,109)	CONNECTOR POST	B3B-PH-K-S
CN	109	(A,213,113)	15P SOCKET	XKP3090
CN	110	(A,169,113)	17P SOCKET	XKP3059
CN	111	(A,274,113)	21P SOCKET	XKP3091
CN	112	(A,91,41)	CONNECTOR	9604S-35C
CN	122	(A,41,58)	CONNECTOR	9604S-09C
CN	129	(A,247,13)	CONNECTOR	9604S-19C
CN	141	(A,302,21)	8P PIN JACK	XKB3064
CN	142	(A,302,98)	8P PIN JACK	XKB3067
CN	251	(A,39,92)	3P JUMPER CONNECTOR	52147-0310
CN	252	(A,37,77)	3P TOP POST	B3B-EH
	102		PCB BINDER	VEF1040
	101		PCB BINDER	VEF1040

RESISTORS

Mark	No.		Description	Part No.
R	101	(B,282,19)		RS1/16S331J
R	102	(B,293,12)		RS1/16S331J
R	103	(B,283,62)		RS1/16S222J
R	104	(B,283,52)		RS1/16S222J
R	105	(B,283,48)		RS1/16S331J
R	106	(B,293,40)		RS1/16S331J
R	107	(B,283,88)		RS1/16S331J
R	108	(B,293,81)		RS1/16S331J
R	109	(B,283,75)		RS1/16S331J
R	110	(B,293,68)		RS1/16S331J
R	111	(B,283,112)		RS1/16S222J
R	112	(B,283,106)		RS1/16S222J
R	113	(B,283,101)		RS1/16S331J
R	114	(B,293,96)		RS1/16S331J
R	129	(B,283,34)		RS1/16S331J
R	130	(B,283,25)		RS1/16S331J
R	145	(A,70,73)		RS1/16S102J
R	146	(A,71,74)		RS1/16S102J
R	147	(B,231,59)		RS1/16S102J
R	148	(B,233,51)		RS1/16S102J
R	149	(B,263,57)		RS1/16S104J
R	180	(B,278,97)		RS1/16S0R0J
R	181	(B,273,78)		RS1/16S0R0J
R	182	(B,275,75)		RS1/16S0R0J
R	183	(B,276,67)		RS1/16S0R0J
R	201	(A,208,85)		RS1/16S473J
R	202	(A,207,90)		RS1/16S473J
R	205	(B,208,85)		RS1/16S392J
R	206	(B,208,91)		RS1/16S392J
R	207	(B,210,85)		RS1/16S392J
R	208	(B,210,91)		RS1/16S392J
R	209	(B,216,85)		RS1/16S392J
R	210	(B,216,91)		RS1/16S392J
R	211	(B,219,85)		RS1/16S332J
R	212	(B,219,91)		RS1/16S332J
R	241	(A,206,70)		RS1/16S473J
R	242	(A,206,75)		RS1/16S473J
R	245	(B,205,70)		RS1/16S332J
R	246	(B,205,76)		RS1/16S332J
R	247	(B,207,70)		RS1/16S332J
R	248	(B,207,76)		RS1/16S332J
R	249	(B,214,70)		RS1/16S332J
R	250	(B,214,76)		RS1/16S332J
R	251	(B,216,70)		RS1/16S182J
R	252	(B,216,76)		RS1/16S182J
R	261	(A,189,53)		RS1/16S473J
R	262	(A,189,59)		RS1/16S473J
R	264	(B,186,60)		RS1/16S392J
R	265	(B,188,53)		RS1/16S332J
R	266	(B,188,60)		RS1/16S472J
R	267	(B,190,53)		RS1/16S332J
R	268	(B,190,60)		RS1/16S123J
R	269	(B,197,53)		RS1/16S332J
R	270	(B,197,60)		RS1/16S122J
R	271	(B,199,53)		RS1/16S182J
R	272	(B,199,60)		RS1/16S272J
R	274	(B,202,60)		RS1/16S271J
R	303	(B,163,37)		RS1/16S101J
R	304	(B,158,49)		RS1/16S101J
R	305	(B,163,49)		RS1/16S101J
R	306	(B,164,61)		RS1/16S101J
R	307	(B,165,68)		RS1/16S101J
R	308	(B,173,73)		RS1/16S101J
R	311	(A,258,102)	METAL OXIDE RESISTOR	RS1LMF101J
R	312	(A,266,102)	METAL OXIDE RESISTOR	RS1LMF101J
R	430	(A,137,91)		RS1/16S104J
R	431	(A,130,95)		RS1/16S104J
R	432	(A,130,100)		RS1/16S104J
R	433	(A,137,99)		RS1/16S683J
R	434	(A,136,94)		RS1/16S393J
R	435	(A,134,97)		RS1/16S683J
R	436	(A,137,102)		RS1/16S683J
R	437	(A,53,106)		RS1/16S103J
R	438	(A,54,110)		RS1/16S103J
R	439	(A,56,110)		RS1/16S103J
R	440	(A,63,113)		RS1/16S103J
R	441	(A,146,94)		RS1/16S222J
R	442	(A,149,95)		RS1/16S104J
R	443	(B,57,108)		RS1/16S471J
R	444	(A,139,91)		RS1/16S104J
R	445	(A,55,101)		RS1/16S223J
R	447	(A,65,96)		RS1/16S472J
R	448	(A,70,113)		RS1/16S104J
R	449	(A,65,113)		RS1/16S822J
R	452	(A,153,44)		RS1/16S0R0J

Mark	No.	Description	Part No.
R	459	(B,139,38)	RS1/16S103J
R	460	(B,139,43)	RS1/16S103J
R	463	(A,62,103)	RS1/16S223J
R	464	(A,65,100)	RS1/16S223J
R	465	(A,59,100)	RS1/16S223J
R	466	(A,60,103)	RS1/16S223J
R	467	(A,146,36)	RS1/16S0R0J
R	471	(A,152,51)	RS1/16S0R0J
R	472	(A,156,63)	RS1/16S0R0J
R	479	(B,142,57)	RS1/16S103J
R	480	(B,142,62)	RS1/16S103J
R	484	(A,173,70)	RS1/16S104J
R	485	(A,170,77)	RS1/16S472J
R	499	(B,146,69)	RS1/16S103J
R	500	(B,140,79)	RS1/16S103J
R	549	(B,159,69)	RS1/16S0R0J
R	550	(A,153,84)	RS1/16S0R0J
R	551	(A,67,113)	RS1/16S822J
R	5010	(A,75,24)	RS1/16S473J
R	5011	(A,81,19)	RS1/16S473J
R	5012	(A,82,17)	RS1/16S102J
R	5013	(A,57,27)	RS1/16S102J
R	6001	(A,135,14)	RS1/16S104J
R	6003	(A,132,27)	RS1/16S101J
R	6004	(A,144,20)	RS1/16S101J
R	6006	(A,143,25)	RS1/16S103J
R	6007	(A,131,30)	RS1/16S101J
R	6009	(A,131,16)	RS1/16S101J
R	6010	(A,144,23)	RS1/16S182J
R	9001	(B,94,54)	RS1/16S0R0J
R	9002	(A,98,94)	RS1/16S473J
R	9003	(B,92,54)	RS1/16S0R0J
R	9006	(B,103,89)	RS1/16S474J
R	9007	(B,93,89)	RS1/16S474J
R	9008	(A,80,109)	RS1/16S221J
R	9009	(A,65,85)	RS1/16S473J
R	9010	(B,107,48)	RS1/16S512J
R	9011	(A,63,76)	RS1/16S102J
R	9012	(A,63,73)	RS1/16S0R0J
R	9013	(B,112,45)	RS1/16S471J
R	9014	(B,104,54)	RS1/16S471J
R	9015	(B,102,54)	RS1/16S471J
R	9016	(B,100,54)	RS1/16S471J
R	9017	(B,98,54)	RS1/16S471J
R	9018	(B,96,54)	RS1/16S471J
R	9019	(B,98,76)	RS1/16S471J
R	9020	(B,99,76)	RS1/16S471J
R	9021	(B,101,76)	RS1/16S471J
R	9022	(B,103,76)	RS1/16S471J
R	9023	(B,112,67)	RS1/16S103J
R	9024	(B,110,67)	RS1/16S103J
R	9025	(B,103,67)	RS1/16S332J
R	9027	(A,57,44)	RS1/16S221J
R	9028	(B,118,45)	RS1/16S104J
R	9029	(A,82,62)	RS1/16S221J
R	9030	(A,68,79)	RS1/16S470J
R	9031	(A,65,54)	RS1/16S104J
R	9032	(A,62,53)	RS1/16S104J
R	9033	(B,89,48)	RS1/16S104J

Mark	No.	Description	Part No.
R	9036	(A,90,89)	RS1/16S221J
R	9037	(B,75,98)	RS1/16S104J
R	9039	(A,87,57)	RS1/16S104J
R	9041	(B,116,45)	RS1/16S104J
R	9042	(B,83,81)	RS1/16S103J
R	9043	(B,81,81)	RS1/16S103J
R	9044	(B,79,81)	RS1/16S103J
R	9045	(A,97,46)	RS1/16S471J
R	9046	(A,107,46)	RS1/16S471J
R	9047	(A,98,46)	RS1/16S103J
R	9048	(A,98,43)	RS1/16S103J
R	9053	(A,102,29)	RS1/16S221J
R	9060	(B,98,68)	RS1/16S473J
R	9062	(B,87,48)	RS1/16S471J
R	9063	(B,43,73)	RS1/16S103J
R	9064	(A,54,74)	RS1/16S103J
R	9065	(A,56,74)	RS1/16S103J
R	9066	(A,62,72)	RS1/16S103J
R	9067	(A,59,83)	RS1/16S103J
R	9068	(A,64,71)	RS1/16S0R0J
R	9071	(B,70,50)	RS1/16S221J
R	9072	(B,64,50)	RS1/16S221J
R	9073	(A,74,56)	RS1/16S221J
R	9074	(A,79,52)	RS1/16S221J
R	9081	(A,119,73)	RS1/16S221J
R	9082	(A,121,71)	RS1/16S274J
R	9098	(B,146,18)	RS1/16S0R0J

CAPACITORS

C	101	(B,293,18)	CCSRCH101J50
C	102	(B,295,12)	CCSRCH101J50
C	103	(B,295,56)	CCSRCH101J50
C	104	(B,296,51)	CCSRCH101J50
C	105	(B,293,45)	CCSRCH101J50
C	106	(B,296,40)	CCSRCH101J50
C	107	(B,293,86)	CCSRCH101J50
C	108	(B,296,81)	CCSRCH101J50
C	109	(B,293,72)	CCSRCH101J50
C	110	(B,296,68)	CCSRCH101J50
C	111	(B,296,111)	CCSRCH101J50
C	112	(B,297,107)	CCSRCH101J50
C	113	(B,293,100)	CCSRCH101J50
C	114	(B,296,96)	CCSRCH101J50
C	115	(B,262,98)	CKSRYB103K50
C	116	(B,264,97)	CKSRYB103K50
C	117	(B,283,116)	CCSRCH220J50
C	118	(B,285,109)	CCSRCH220J50
C	121	(A,280,34)	CEAT100M50
C	122	(A,280,25)	CEAT100M50
C	123	(A,280,19)	CEAT100M50
C	124	(A,280,11)	CEAT100M50
C	125	(A,280,62)	CEAT100M50
C	126	(A,280,53)	CEAT100M50
C	127	(A,280,47)	CEAT100M50
C	128	(A,280,40)	CEAT100M50
C	131	(A,280,87)	CEAT100M50
C	132	(A,280,80)	CEAT100M50
C	133	(A,280,74)	CEAT100M50
C	134	(A,280,67)	CEAT100M50
C	135	(A,280,114)	CEAT100M50

Mark	No.		Description	Part No.
C	136	(A,280,106)		CEAT100M50
C	137	(A,280,101)		CEAT100M50
C	138	(A,280,93)		CEAT100M50
C	139	(A,50,101)		CEAT100M50
C	140	(A,50,94)		CEAT100M50
C	141	(B,236,50)		CKSRYB104K50
C	145	(B,238,54)		CCSRCH101J50
C	146	(B,238,50)		CCSRCH101J50
C	147	(A,249,68)		CKSRYB103K50
C	148	(B,229,61)		CKSRYB223K25
C	149	(B,240,59)		CKSRYB473K25
C	150	(B,237,59)		CKSQYB154K16
C	151	(B,234,62)		CKSRYB103K50
C	152	(B,235,54)		CKSRYB223K25
C	153	(B,233,56)		CKSRYB473K25
C	154	(B,230,53)		CKSQYB154K16
C	155	(A,225,43)		CEAT470M25
C	165	(A,236,86)		CEAT1R0M50
C	166	(A,243,86)		CEAT1R0M50
C	179	(B,294,76)		CKSRYB103K50
C	180	(A,277,19)		CKSRYB103K50
C	181	(A,283,30)		CCSRCH101J50
C	182	(B,285,28)		CCSRCH101J50
C	183	(B,287,14)		CCSRCH101J50
C	184	(B,285,14)		CCSRCH101J50
C	185	(B,283,44)		CCSRCH101J50
C	186	(B,288,42)		CCSRCH101J50
C	187	(B,283,84)		CCSRCH101J50
C	188	(B,285,83)		CCSRCH101J50
C	189	(B,283,71)		CCSRCH101J50
C	190	(B,287,70)		CCSRCH101J50
C	191	(B,283,97)		CCSRCH101J50
C	192	(B,285,96)		CCSRCH101J50
C	197	(B,292,29)		CCSRCH101J50
C	198	(B,294,25)		CCSRCH101J50
C	199	(A,281,50)		CKSRYB103K50
C	201	(A,202,85)		CEAT2R2M50
C	202	(A,203,92)		CEAT2R2M50
C	205	(A,212,85)		CCSRCH331J50
C	206	(A,212,90)		CCSRCH331J50
C	207	(B,212,85)		CCSRCH331J50
C	208	(B,212,91)		CCSRCH331J50
C	217	(A,221,85)		CKSRYB103K50
C	218	(A,221,90)		CKSRYB103K50
C	241	(A,200,71)		CEAT2R2M50
C	242	(A,200,78)		CEAT2R2M50
C	245	(A,211,70)		CCSRCH331J50
C	246	(A,211,75)		CCSRCH331J50
C	247	(B,209,70)		CCSRCH331J50
C	248	(B,209,76)		CCSRCH331J50
C	251	(A,219,68)		CKSRYB103K50
C	252	(A,219,75)		CKSRYB103K50
C	253	(A,130,91)		CKSRYB103K50
C	254	(A,157,96)		CEAT101M25
C	256	(A,135,84)		CKSRYB103K50
C	261	(A,183,54)		CEAT2R2M50
C	262	(A,183,62)		CEAT2R2M50
C	264	(A,191,59)		CCSRCH331J50
C	265	(A,194,53)		CCSRCH331J50
C	266	(A,194,59)		CCSRCH221J50
C	267	(B,193,53)		CCSRCH331J50
C	268	(B,193,60)		CCSRCH101J50
C	271	(A,202,53)		CKSRYB103K50
C	272	(A,202,58)		CKSRYB103K50
C	325	(A,143,39)	ELECT. CAPACITOR	CEAT220M50
C	326	(A,143,46)	ELECT. CAPACITOR	CEAT220M50
C	333	(A,251,93)		CEAT101M10
C	334	(A,268,81)		CEAT101M10
C	345	(A,145,57)	ELECT. CAPACITOR	CEAT220M50
C	346	(A,145,64)	ELECT. CAPACITOR	CEAT220M50
C	362	(A,185,79)		CEAT100M50
C	365	(A,142,73)	ELECT. CAPACITOR	CEAT220M50
C	366	(A,142,80)	ELECT. CAPACITOR	CEANP4R7M50
C	392	(B,91,97)		CKSRYB102K50
C	1031	(A,286,65)		CCSRCH220J50
C	1041	(B,287,55)		CCSRCH220J50
C	5001	(B,230,10)		CKSRYB102K50
C	5002	(B,232,10)		CKSRYB103K50
C	5003	(B,234,10)		CKSRYB105K10
C	5011	(A,77,16)		CEJQ100M50
C	5013	(A,61,28)		CCSRCH270J50
C	5014	(A,63,28)		CCSRCH270J50
C	5015	(A,59,20)		CEJQ470M16
C	5016	(A,62,22)		CKSRYB103K50
C	5017	(A,73,14)		CCSRCH561J50
C	5020	(A,69,13)		CKSRYB472K50
C	5025	(A,159,11)		CKSRYB102K50
C	5026	(A,162,12)		CKSRYB102K50
C	5027	(A,167,14)		CKSRYB102K50
C	5028	(A,180,15)		CCSRCH220J50
C	6001	(A,139,18)		CKSRYB104K16
C	9004	(B,84,88)		CKSRYB103K50
C	9005	(A,78,106)		CEJQ2R2M50
C	9006	(A,95,93)		CKSRYB105K10
C	9007	(A,79,92)	ELECT. CAPACITOR	CEAT331M6R3
C	9008	(B,77,90)		CKSRYB103K50
C	9011	(B,95,89)		CKSRYB473K16
C	9014	(B,87,88)		CKSRYB473K16
C	9015	(A,94,102)		CKSRYB102K50
C	9017	(A,129,55)		CKSRYB104K50
C	9018	(B,72,72)		CKSRYB104K50
C	9030	(A,272,106)		CEAT101M25
C	9081	(A,121,69)		CKSRYB103K50

B DSP & USB ASSY (VSX-818V-K)

SEMICONDUCTORS

Mark	No.	Part No.
⚠	IC 1,2	PQ1LAX95MSPQ
	IC 101	AK4114VQ
	IC 191,331	TC74VHC08FTS1
	IC 201	DSPC56371AF180
	IC 202	TC7WH125FU
	IC 251	PDC172A8
	IC 261	TC7WHU04FU
	IC 271	ML87V5002
	IC 301	AK4626AVQ
	IC 351	TC74VHCT541AFTS1
	IC 401	TCC8600-00X-EA-UG

Mark	No.	Description	Part No.
⚠	IC 402		S-1200B18-M5
	IC 461		HY57V641620FTP-6
	IC 462		AYW7236
⚠	IC 471		AAT4618IGV-0.5-1
	IC 481		341S2154
	Q 201		RT1N241M
	Q 401		2SA1577
	Q 402,471		RT1N431M
	D 1,21		UDZS5R6(B)
	D 301		MA152WA
	D 302		MA152WK

MISCELLANEOUS

L	1-3	CHIP SOLID INDUCTOR	ATL7002
L	101,102	CHIP SOLID INDUCTOR	QTL1013
L	191,201	CHIP SOLID INDUCTOR	QTL1013
L	202,203	CHIP SOLID INDUCTOR	ATL7002
L	204,251	CHIP SOLID INDUCTOR	QTL1013
L	261,271	CHIP SOLID INDUCTOR	QTL1013
L	301,302	CHIP SOLID INDUCTOR	QTL1013
L	331,351	CHIP SOLID INDUCTOR	QTL1013
L	401,403	CHIP SOLID INDUCTOR	QTL1013
L	402	INDUCTOR	LCTC100K1608
L	404,461	CHIP SOLID INDUCTOR	QTL1013
L	441	CHIP FERRITE BEADS	VTL1169
L	442	COIL	VTH1043
L	462,481	CHIP SOLID INDUCTOR	QTL1013
JA	101	JACK	VKB1159
X	261	CRYSTAL RESONATOR (24.576 MHz)	XSS3003
X	402	CRYSTAL OSCILLATOR	CSS1614
X	481	CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172
CN	1	13P SOCKET	XKP3077
CN	2	21P SOCKET	XKP3081
CN	5,6	5P CONNECTOR	VKN1374
CN	8	CONNECTOR	9604S-27C
CN	401	CONNECTOR	AKM1275
JH	501	PCB BINDER	VEF1040

RESISTORS

R	21	RS1/16SS2002F
R	22,24	RS1/16SS1202F
R	23	RS1/16SS1000F
R	42,44,45	RAB4CQ104J
R	103,108,202,271	RAB4CQ101J
R	110,442,443	RS1/16S0R0J
R	111	RS1/16SS1802F
R	191-193	RS1/16S101J
R	203	RAB4CQ103J
R	226,229,272	RAB4CQ470J
R	273,279,317,353	RAB4CQ101J
R	306	RS1/16S4R7J
R	354	RAB4CQ101J
R	488	RS1/16SS1003F
Other Resistors		RS1/16SS###J

CAPACITORS

C	7,107,321,322	CKSSYB102K50
C	9,113,220,301	CKSSYB103K16
C	10,12,203,209	CKSSYB471K50
C	11,102,105,106	CKSSYB104K10
C	21,230,303,315	CEVW101M16
C	22-25	CKSRYB105K10
C	103,108,318	CEVW470M6R3
C	104,110,192,261	CCSRCH471J50
C	109,191,202,204	CKSSYB104K10
C	111	CKSRYB474K10
C	206,208,210,215	CKSSYB104K10
C	214,216,218,221	CKSSYB471K50
C	217,219,222,224	CKSSYB104K10
C	225,309-314,317	CKSSYB471K50
C	226,228,232,252	CKSSYB104K10
C	229	CEVW101M4
C	262,271,273,275	CKSSYB104K10
C	264,265	CCSSCH8R0D50
C	277,304,306,316	CKSSYB104K10
C	305,484	CCSSCH101J50
C	320,332,352,401	CKSSYB104K10
C	402,404,406,408	CKSSYB471K50
C	403,405,407,409	CKSSYB104K10
C	410,412,416,418	CKSSYB471K50
C	411,415,417,419	CKSSYB104K10
C	413	CCSRCH100D50
C	414	CCSRCH471J50
C	420	CKSSYB122K50
C	421	CKSQYB225K10
C	422	CCSRCH331J50
C	423,426,429,432	CKSSYB104K10
C	424,427,430,433	CKSSYB471K50
C	425,443,455	CEVW101M16
C	431	CKSSYB103K16
C	434,454,461,467	CKSSYB104K10
C	435,436,462-464	CKSSYB471K50
C	441,442	CKSRYB104K16
C	451,457	CKSRYB105K16
C	466,468,486	CKSSYB471K50
C	471	CKSSYB104K16
C	472	CKSQYB105K16
C	481,485	CKSSYB104K10
C	482,483	CCSSCH5R0C50

C POWER PACK ASSY

MISCELLANEOUS

⚠	IC 601	(A,265,14) 2CH POWER IC	PAC014A
⚠	IC 603	(A,137,14) 3CH POWER IC	PAC015A
⚠	IC 610	(A,59,28) PROTECTOR(1A)	AEK7009
⚠	IC 701	(A,100,80) IC PROTECTOR	ICP-N10
⚠	IC 702	(A,84,81) IC PROTECTOR	ICP-N10
⚠	IC 803	(B,238,93) IC	BA05FP
⚠	IC 804	(A,279,111) REGULATOR IC	KIA7809API
⚠	IC 805	(B,270,132) LDO REGULATOR(5V)	NJM2831F05
	Q 501	(B,91,38) TRANSISTOR	2SC5938A
	Q 505	(A,116,47) TRANSISTOR	2SC2240
	Q 601	(B,94,44) TRANSISTOR	2SC5938A
	Q 602	(B,224,43) TRANSISTOR	2SC5938A
	Q 605	(A,123,40) TRANSISTOR	2SC2240
	Q 606	(A,252,40) TRANSISTOR	2SC2240
	Q 652	(B,219,37) TRANSISTOR	2SC5938A
	Q 656	(A,244,47) TRANSISTOR	2SC2240

Mark	No.	Description	Part No.
	Q 681	(B,82,48) TRANSISTOR	2SC5938A
	Q 683	(A,59,65) TRANSISTOR	2SC2240
	Q 696	(B,282,24) TRANSISTOR	2SC4081
	Q 697	(B,282,29) TRANSISTOR	2SC4081
	Q 698	(B,246,67) TRANSISTOR	RT1N241M
⚠	Q 701	(A,110,72) TRANSISTOR	2SC5511
⚠	Q 702	(A,96,86) TRANSISTOR	2SA2005
	Q 703	(A,155,76) TRANSISTOR	2SA1145
	Q 704	(A,166,79) TRANSISTOR	2SC2240
	Q 721	(A,142,72) TRANSISTOR	2SA1145
	Q 722	(A,161,74) TRANSISTOR	2SC2240
	Q 724	(B,291,72) TRANSISTOR	RT1N241M
	Q 801	(B,271,141) DIGITAL TR(SC-70)	RT1P241M
	Q 802	(B,271,145) TRANSISTOR	RT1N241M
	Q 803	(B,265,141) DIGITAL TR(SC-70)	RT1P241M
	Q 804	(B,268,141) TRANSISTOR	RT1N241M
	Q 805	(B,274,143) DIGITAL TR(SC-70)	RT1P241M
	Q 806	(B,267,146) TRANSISTOR	RT1N241M
	Q 807	(B,276,53) TRANSISTOR	RT3P22M
	Q 808	(B,283,57) TRANSISTOR	RT3N22M
	Q 810	(A,206,104) TRANSISTOR	2SD1858X
	D 601	(A,127,57) DIODE	1SS133
	D 603	(A,121,57) DIODE	1SS133
	D 606	(A,260,57) DIODE	1SS133
	D 608	(A,253,52) DIODE	1SS133
	D 652	(A,262,57) DIODE	1SS133
	D 654	(A,242,52) DIODE	1SS133
	D 683	(A,132,57) DIODE	1SS133
	D 684	(A,65,72) DIODE	1SS133
	D 701	(A,9,88) DIODE	D5SBA20(B)
	D 711	(A,195,103) ZENER DIODE	MTZJ22D
	D 712	(A,191,103) DIODE	MTZJ6R8(B)
	D 713	(A,114,77) DIODE	1SS133
	D 741	(B,152,136) DIODE	1SS355
	D 742	(B,167,140) DIODE	1SS355
	D 743	(B,121,129) DIODE	1SS355
	D 744	(B,138,139) DIODE	1SS355
	D 745	(B,115,129) DIODE	1SS355
	D 751	(B,168,135) DIODE	1SS355
	D 752	(B,170,135) DIODE	1SS355
	D 753	(B,138,132) DIODE	1SS355
	D 754	(B,141,132) DIODE	1SS355
	D 757	(B,70,136) DIODE	1SS355
	D 758	(B,73,136) DIODE	1SS355
	D 777	(A,130,57) DIODE	1SS133
	D 778	(A,110,57) DIODE	1SS133
	D 801	(B,222,113) BRIDGE DIODE	S1WB(A)60SD
	D 806	(A,283,65) DIODE	MTZJ6R2(B)
	D 807	(A,280,70) DIODE	1SS133
	D 827	(A,262,132) DIODE	MTZJ6R2(B)
	D 828	(A,227,99) DIODE	MTZJ6R2(B)
	D 829	(A,239,128) DIODE	D3SBA20(B)
	D 900	(A,213,94) DIODE	MTZJ7R5(B)
	L 751	(A,160,108) COIL	ATH1004
	L 752	(A,173,108) COIL	ATH1004
	L 753	(A,120,107) COIL	ATH1004
	L 761	(A,130,108) COIL	ATH1004
	L 762	(A,142,108) COIL	ATH1004
	J 43	11P PARALLEL WIRE	XDX3066

Mark	No.	Description	Part No.
	KN 601	(A,65,23) WRAPPING TERMINAL	VNF1084
	RY 501	(A,75,132) RELAY	ASR7001
	RY 751	(A,173,130) RELAY	ASR7001
	RY 752	(A,141,126) RELAY	ASR7001
	RY 753	(A,117,120) RELAY	ASR7001
	CN 701	(A,212,134) 11PJUMPER CONNECTOR	52147-1110
	CN 702	(A,200,106) 6P JUMPER CONNECTOR	52147-0610
	CN 704	(A,290,45) 17P PLUG	XKM3007
	CN 751	SP TERMINAL 4-P(V0)	XKE3044
	CN 752	SP TERMINAL 6-P(V0)	XKE3043
	CN 753	(A,70,179) SP TERMINAL 4-P(V0)	XKE3050
	CN 803	(A,224,129) 6P PLUG	KM200TA6
	CN 805	(A,317,153) 13P PLUG	XKP3066
	CN 806	(A,317,120) 21P PLUG	XKP3070
	CN 815	(A,290,89) 15P PLUG	XKM3010
	CN 816	(A,290,126) 21P PLUG	XKM3011
	810	(A,277,90) 11P CABLE HOLDER	51048-1100

RESISTORS

	R 601	(A,99,48)	RD1/4PU102J
	R 602	(A,228,42)	RD1/4PU102J
	R 603	(B,96,47)	RS1/16S103J
	R 604	(B,225,47)	RS1/16S103J
	R 609	(A,96,35)	RD1/4PU563J
	R 610	(A,225,35)	RD1/4PU563J
	R 611	(A,95,28)	RD1/4PU182J
	R 612	(A,223,28)	RD1/4PU182J
	R 613	(A,119,21)	RD1/4PU563J
	R 614	(A,247,21)	RD1/4PU563J
	R 615	(A,128,36)	RD1/4PU331J
⚠	R 617	(A,119,31) RESISTOR (0.22, 5W)	ACN7094
	R 619	(A,124,52)	RD1/4PU182J
	R 620	(A,257,36)	RD1/4PU331J
	R 621	(A,129,49)	RD1/4PU821J
⚠	R 622	(A,248,31) RESISTOR (0.22, 5W)	ACN7094
	R 623	(A,121,48)	RD1/4PU223J
	R 624	(A,257,52)	RD1/4PU182J
	R 626	(A,258,49)	RD1/4PU821J
	R 628	(A,250,48)	RD1/4PU223J
	R 652	(A,215,36)	RD1/4PU102J
	R 654	(B,219,41)	RS1/16S103J
	R 660	(A,220,29)	RD1/4PU563J
	R 662	(A,216,20)	RD1/4PU182J
	R 664	(A,238,21)	RD1/4PU563J
	R 666	(A,240,35)	RD1/4PU331J
⚠	R 668	(A,239,31) RESISTOR (0.22, 5W)	ACN7094
	R 670	(A,245,52)	RD1/4PU182J
	R 672	(A,240,57)	RD1/4PU821J
	R 674	(A,236,38)	RD1/4PU223J
	R 681	(A,73,51)	RD1/4PU102J
	R 682	(B,77,49)	RS1/16S103J
	R 685	(B,80,37)	RS1/16S563J
	R 686	(B,85,21)	RS1/16S182J
	R 687	(A,88,11)	RD1/4PU563J
	R 690	(A,60,52)	RD1/4PU331J
⚠	R 691	(A,55,55) RESISTOR (0.22, 5W)	ACN7094
	R 692	(A,70,72)	RD1/4PU182J
	R 693	(A,67,77)	RD1/4PU821J
	R 694	(A,62,72)	RD1/4PU223J
	R 696	(B,281,38)	RS1/16S103J

Mark	No.		Description	Part No.
	R	697	(B,255,68)	RS1/16S103J
	R	698	(B,243,67)	RS1/16S333J
	R	701	(A,122,85)	RD1/4PU472J
	R	702	(A,109,87)	RD1/4PU472J
	R	703	(A,151,72)	RD1/4PU392J
	R	704	(A,148,77)	RD1/4PU392J
	R	705	(A,281,82)	RD1/4PU473J
	R	706	(A,277,83)	RD1/4PU473J
	R	707	(A,133,80)	RD1/4PU184J
	R	708	(A,147,81)	RD1/4PU184J
⚠	R	711	(A,181,86) METAL OXIDE RESISTOR	RS2LMF222J
	R	713	(A,114,85)	RD1/4PU102J
	R	721	(A,145,77)	RD1/4PU103J
	R	722	(A,125,78)	RD1/4PU103J
	R	723	(A,271,78)	RD1/4PU473J
	R	724	(A,274,83)	RD1/4PU473J
	R	725	(A,276,74)	RD1/4PU103J
	R	726	(B,286,62)	RS1/16S473J
	R	727	(B,283,62)	RS1/16S103J
	R	728	(B,106,9)	RS1/16S683J
	R	730	(B,214,14)	RS1/16S683J
	R	731	(A,122,73)	RD1/4PU220J
	R	732	(A,101,89)	RD1/4PU220J
	R	740	(B,87,141)	RS1/16S683J
	R	741	(B,152,140)	RS1/16S472J
	R	742	(B,169,143)	RS1/16S472J
	R	743	(B,121,134)	RS1/16S472J
	R	744	(B,137,143)	RS1/16S472J
	R	745	(B,110,131)	RS1/16S472J
⚠	R	751	(A,158,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	752	(A,185,120) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	753	(A,156,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	754	(A,181,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	755	(A,103,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	756	(A,101,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	761	(A,125,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	762	(A,155,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	763	(A,124,132) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	764	(A,149,139) METAL OXIDE RESISTOR	RS1LMF4R7J
	R	777	(A,86,37)	RD1/4PU102J
	R	778	(B,90,42)	RS1/16S103J
	R	781	(A,92,30)	RD1/4PU563J
	R	782	(A,89,22)	RD1/4PU182J
	R	783	(A,109,21)	RD1/4PU563J
	R	784	(A,116,35)	RD1/4PU331J
⚠	R	785	(A,110,31) RESISTOR (0.22, 5W)	ACN7094
	R	786	(A,113,57)	RD1/4PU182J
	R	787	(A,106,59)	RD1/4PU821J
	R	788	(A,107,38)	RD1/4PU223J
	R	806	(B,280,48)	RS1/16S103J
	R	807	(B,278,48)	RS1/16S103J
	R	808	(B,279,53)	RS1/16S102J
	R	813	(B,273,131)	RS1/16S102J
	R	900	(B,213,97)	RS1/16S102J
	R	901	(B,210,98)	RS1/16S100J
	R	1101	(B,273,68)	RS1/16S0R0J
	R	1102	(B,274,61)	RS1/16S0R0J
	R	1109	(B,285,58)	RS1/16S0R0J

CAPACITORS

Mark	No.		Description	Part No.
	C	521	(A,120,164) FILM CAPACITOR	CQMBA123J50
	C	603	(B,99,39)	CKSRYB331K50
	C	604	(B,227,38)	CKSRYB331K50
	C	605	(A,101,38)	CEAT4R7M50
	C	606	(A,230,38)	CEAT4R7M50
	C	607	(B,100,20)	CCSRCH470J50
	C	608	(B,230,17)	CCSRCH470J50
	C	609	(A,96,32)	CEAT101M16
	C	610	(A,225,32)	CEAT101M16
	C	613	(B,121,27)	CCSRCJ3R0C50
	C	614	(B,250,28)	CCSRCJ3R0C50
	C	615	(A,121,45)	CEANP2R2M50
	C	616	(A,250,45)	CEANP2R2M50
	C	654	(B,217,33)	CKSRYB331K50
	C	656	(A,215,33)	CEAT4R7M50
	C	658	(B,221,17)	CCSRCH470J50
	C	660	(A,219,25)	CEAT101M16
	C	664	(B,241,24)	CCSRCJ3R0C50
	C	666	(A,239,49)	CEANP2R2M50
	C	682	(B,80,43)	CKSRYB331K50
	C	683	(A,83,43)	CEAT4R7M50
	C	684	(B,87,18)	CCSRCH470J50
	C	685	(A,83,37)	CEAT101M16
	C	687	(B,87,8)	CCSRCJ3R0C50
	C	688	(A,75,78)	CEANP2R2M50
	C	696	(B,281,36)	CKSRYB102K50
	C	697	(A,286,29)	CEAT221M6R3
	C	701	(A,49,80) E-CAP 5600/71	XCH3027
	C	702	(A,49,107) E-CAP 5600/71	XCH3027
	C	705	(A,156,81) ELECT. CAPACITOR	CEAT100M2A
	C	706	(A,142,84) ELECT. CAPACITOR	CEAT100M2A
	C	711	(A,195,99) ELECT. CAPACITOR	CEAT101M35
	C	712	(A,188,105)	CEAT101M10
	C	740	(A,90,136)	CEAT101M25
	C	751	(A,159,143) FILM CAPACITOR	CQMBA224J50
	C	752	(A,181,150) FILM CAPACITOR	CQMBA224J50
	C	753	(A,157,155) FILM CAPACITOR	CQMBA224J50
	C	754	(A,181,158) FILM CAPACITOR	CQMBA224J50
	C	755	(A,103,147) FILM CAPACITOR	CQMBA224J50
	C	756	(A,96,151) FILM CAPACITOR	CQMBA224J50
	C	757	(A,157,164) FILM CAPACITOR	CQMBA123J50
	C	758	(A,177,164) FILM CAPACITOR	CQMBA123J50
	C	759	(A,101,164) FILM CAPACITOR	CQMBA123J50
	C	761	(A,122,139) FILM CAPACITOR	CQMBA224J50
	C	762	(A,152,145) FILM CAPACITOR	CQMBA224J50
	C	763	(A,122,146) FILM CAPACITOR	CQMBA224J50
	C	764	(A,150,152) FILM CAPACITOR	CQMBA224J50
	C	765	(A,63,164) FILM CAPACITOR	CQMBA123J50
	C	766	(A,82,164) FILM CAPACITOR	CQMBA123J50
	C	773	(A,138,164) FILM CAPACITOR	CQMBA123J50
	C	778	(B,89,34)	CKSRYB331K50
	C	779	(A,86,33)	CEAT4R7M50
	C	780	(B,93,18)	CCSRCH470J50
	C	781	(A,92,27)	CEAT101M16
	C	783	(B,112,24)	CCSRCJ3R0C50
	C	784	(A,110,48)	CEANP2R2M50
	C	801	(A,248,114) ELECT. CAPACITOR	CEAT222M25
	C	802	(A,249,100) ELECT. CAPACITOR	CEAT222M25
	C	806	(B,281,53)	CKSRYB105K16
	C	807	(B,233,89)	CKSRYB103K25

Mark	No.		Description	Part No.
C	808	(A,245,142)	ELECT. CAPACITOR	CEAT472M16
C	809	(A,232,95)		CEAT101M10
C	810	(A,266,133)		CEAT101M10
C	811	(B,276,128)		CKSRYB103K25
C	812	(B,272,111)		CKSRYB103K25
C	813	(A,272,118)		CEAT101M16
C	850	(A,210,92)		CEAT101M10
C	860	(A,282,159)		CEAT101M25
C	870	(B,249,134)		CKSRYB104K50
C	901	(B,216,92)		CKSRYB104K16

D TRANS2 ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
⚠ IC	853	(A,32,204)	PROTECTOR(7A)	AEK7021
J	21		JUMPER WIRE 11P	D20PYY1130E
CN	1201	(A,35,183)	4P JUMPER CONNECTOR	52147-0410
	851	(A,49,207)	11P CABLE HOLDER	51048-1100

E COMPONENT VIDEO ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
IC	551	(B,240,208)	LOGIC IC	TC74HC4052AF
IC	552	(B,260,214)	LOGIC IC	TC74HC4052AF
IC	553	(B,213,206)	VIDEO IC	NJM2581M
JA	551	(A,253,178)	6P RCA PINJACK	XKB3025
JA	552	(A,211,178)	6P RCA PINJACK	XKB3025
CN	551	(A,196,213)	CONNECTOR	9604S-07C
	390	(A,235,239)	PCB BINDER	VEF1040

RESISTORS

Mark	No.		Description	Part No.
R	553	(B,242,194)		RS1/16S750J
R	554	(B,256,193)		RS1/16S750J
R	555	(B,270,193)		RS1/16S750J
R	556	(B,237,194)		RS1/16S750J
R	557	(B,251,196)		RS1/16S750J
R	558	(B,266,186)		RS1/16S750J
R	559	(B,199,196)		RS1/16S750J
R	560	(B,220,195)		RS1/16S750J
R	561	(B,228,193)		RS1/16S750J
R	562	(B,193,195)		RS1/16S750J
R	563	(B,217,199)		RS1/16S750J
R	564	(B,218,195)		RS1/16S750J
R	566	(B,243,218)		RS1/16S102J
R	567	(B,248,202)		RS1/16S102J
R	568	(B,248,204)		RS1/16S102J
R	569	(B,250,218)		RS1/16S102J
R	571	(B,254,228)		RS1/16S102J
R	572	(B,254,226)		RS1/16S102J
R	573	(B,229,202)		RS1/16S0R0J
R	574	(B,264,202)		RS1/16S0R0J
R	581	(B,247,209)		RS1/16S222J
R	582	(A,245,221)		RD1/4PU222J

CAPACITORS

Mark	No.		Description	Part No.
C	567	(B,262,186)		CKSRYB103K50
C	568	(B,204,186)		CKSRYB103K50
C	569	(B,246,216)		CKSRYB473K50
C	570	(B,233,208)		CKSRYB473K50
C	571	(B,254,213)		CKSRYB473K50
C	572	(B,267,214)		CKSRYB473K50
C	577	(B,213,214)		CKSRYB103K50
C	579	(A,205,205)		CEAT101M10
C	580	(A,199,205)		CEAT101M10
C	582	(B,212,199)		CKSRYB103K50

F 5.1CH INPUT ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
CN	307	(A,125,216)	7P CONNECTOR	52044-0745
CN	309	(A,167,225)	PIN JACK(4P)	XKB3035

RESISTORS

Mark	No.		Description	Part No.
R	1001	(B,147,233)		RS1/16S474J
R	1002	(B,150,226)		RS1/16S474J
R	1003	(B,149,236)		RS1/16S331J
R	1004	(B,150,228)		RS1/16S331J
R	1009	(B,150,224)		RS1/16S474J
R	1010	(B,151,212)		RS1/16S474J
R	1011	(B,150,222)		RS1/16S331J
R	1012	(B,150,214)		RS1/16S331J

CAPACITORS

Mark	No.		Description	Part No.
C	1001	(B,151,233)		CCSRCH101J50
C	1002	(B,151,230)		CCSRCH101J50
C	1003	(B,143,233)		CKSRYB221K50
C	1004	(B,147,230)		CKSRYB221K50
C	1009	(A,146,236)		CEAT4R7M50
C	1010	(A,146,228)		CEAT4R7M50
C	1012	(B,159,226)		CKSRYB103K50
C	1013	(B,151,219)		CCSRCH101J50
C	1014	(B,151,216)		CCSRCH101J50
C	1015	(B,147,224)		CKSRYB221K50
C	1016	(B,147,216)		CKSRYB221K50
C	1021	(A,146,214)		CEAT4R7M50
C	1022	(A,146,221)		CEAT4R7M50

G TRANS3 ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
⚠ IC	357	(A,100,225)	PROTECTOR(800MA)	AEK7008
D	363	(A,86,238)	DIODE	1SR139-400
J	22		3P PARALLEL WIRE	XDX3064
	891	(A,106,233)	3P CABLE HOLDER	51048-0300

RESISTORS

Mark	No.		Description	Part No.
R	881	(A,54,235)		RD1/4PU4R7J

CAPACITORS

Mark	No.		Description	Part No.
C	406	(A,96,232)	ELECT. CAPACITOR	CEAT471M35
C	881	(A,13,234)	FILM CAPACITOR	CFTLA104J2A
C	882	(A,23,239)	FILM CAPACITOR	CFTLA104J2A

H FRONT DISPLAY ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
IC	401	(B,121,181)	DISPLAY U-COM	PE5550A
Q	441	(B,230,161)	TRANSISTOR	RT1N241M
Q	442	(B,238,190)	TRANSISTOR	RT1N241M
Q	484	(B,215,190)	TRANSISTOR	2SA1576A
D	403	(B,226,189)	DIODE	1SS355
D	404	(B,235,168)	DIODE	1SS355
D	405	(B,230,156)	DIODE	1SS355

Mark	No.	Description	Part No.
D	500	(A,216,182) LED(ORANGE)	SLI-343DCW(STU)
D	502	(A,128,161) LED(BLUE)	SLR343BC4T(JKLM)
L	401	(A,242,159) RADIAL INDUCTOR	LFCA2R2J
V	401	(A,189,200) FL TUBE	XAV3037
S	447	(A,94,113) SWITCH	VSG1024
S	448	(A,76,113) SWITCH	VSG1024
S	449	(A,58,113) SWITCH	VSG1024
S	450	(A,58,92) SWITCH	VSG1024
S	451	(A,76,92) SWITCH	VSG1024
S	452	(A,94,92) SWITCH	VSG1024
S	454	(A,89,136) SWITCH	VSG1024
S	455	(A,65,136) SWITCH	VSG1024
S	456	(A,40,136) SWITCH	VSG1024
S	457	(A,16,136) SWITCH	VSG1024
S	458	(A,40,113) SWITCH	VSG1024
S	459	(A,114,136) SWITCH	VSG1024
S	460	(A,138,136) SWITCH	VSG1024
S	461	(A,163,136) SWITCH	VSG1024
S	462	(A,187,136) SWITCH	VSG1024
S	463	(A,212,136) SWITCH	VSG1024
S	464	(A,236,136) SWITCH	VSG1024
S	471	(A,40,92) SWITCH	VSG1024
X	401	(A,149,165) CERAMIC RESONATOR (5.00 MHz)	VSS1142
CN	401	(A,246,165) 17P CONNECTOR	52044-1745
	515	FL HOLDER(FE)	VNF1096
	471	(A,34,191) CABLE HOLDER(3P)	51063-0305
	470	(A,37,174) CABLE HOLDER(3P)	51063-0305
	404	(A,197,127) CABLE HOLDER(5P)	51063-0505
	402	(A,223,169) REMOTE RECEIVER UNIT	GP1UE274XKC1

RESISTORS

R	401	(B,144,169)	RS1/16S105J
R	402	(B,223,191)	RS1/16S104J
R	403	(B,220,191)	RS1/16S104J
R	404	(B,222,176)	RS1/16S472J
R	405	(B,228,155)	RS1/16S102J
R	406	(B,226,155)	RS1/16S103J
R	407	(B,78,176)	RS1/16S473J
R	408	(B,80,176)	RS1/16S473J
R	409	(B,75,176)	RS1/16S473J
R	410	(B,73,176)	RS1/16S473J
R	411	(B,229,189)	RS1/16S473J
R	412	(B,235,187)	RS1/16S221J
R	413	(B,235,184)	RS1/16S221J
R	414	(B,235,182)	RS1/16S221J
R	415	(B,235,180)	RS1/16S221J
R	416	(B,235,178)	RS1/16S221J
R	417	(B,223,182)	RS1/16S101J
R	419	(B,205,148)	RS1/16S101J
R	420	(B,207,148)	RS1/16S101J
R	421	(B,209,148)	RS1/16S101J
R	422	(B,157,169)	RS1/16S104J
R	423	(B,131,167)	RS1/16S104J
R	424	(B,83,176)	RS1/16S104J
R	425	(B,206,185)	RS1/16S104J
R	448	(B,87,114)	RS1/16S681J
R	449	(B,69,114)	RS1/16S821J
R	450	(B,58,102)	RS1/16S122J
R	451	(B,69,93)	RS1/16S162J
R	452	(B,88,97)	RS1/16S272J
R	453	(B,144,142)	RS1/16S472J
R	454	(A,101,135)	RD1/4PU681J
R	455	(A,75,136)	RD1/4PU821J
R	456	(A,50,136)	RD1/4PU122J
R	457	(A,26,136)	RD1/4PU162J
R	458	(B,34,114)	RS1/16S272J
R	459	(A,108,134)	RD1/4PU472J
R	460	(A,133,138)	RD1/4PU681J
R	461	(A,152,136)	RD1/4PU821J
R	462	(A,183,141)	RD1/4PU122J
R	463	(A,200,141)	RD1/4PU162J
R	464	(A,233,139)	RD1/4PU272J
R	465	(A,166,152)	RD1/4PU472J
R	471	(B,40,102)	RS1/16S512J
R	472	(A,90,142)	RD1/4PU472J
R	550	(B,192,185)	RS1/16S181J
R	551	(B,125,156)	RS1/16S391J

CAPACITORS

C	401	(B,247,155)	CKSRYB103K50
C	402	(B,247,153)	CKSRYB103K50
C	403	(A,232,168)	CEAT221M6R3
C	410	(B,60,193)	CKSRYB103K50
C	411	(B,62,193)	CKSRYB103K50
C	412	(A,49,178)	CEAT470M50
C	418	(B,141,179)	CKSRYB104K16
C	419	(B,103,183)	CKSRYB103K50
C	420	(A,44,184) ELECT. CAPACITOR	CEAT101M35
C	421	(B,160,169)	CKSRYB104K16
C	441	(B,225,176)	CKSRYB103K50
C	442	(A,239,146)	CEAL470M10
C	451	(B,125,166)	CKSRYB102K50
C	452	(B,103,164)	CKSRYB102K50
C	453	(B,122,166)	CKSRYB102K50
C	454	(B,100,164)	CKSRYB102K50
C	481	(B,140,191)	CCSRCH471J50
C	482	(B,126,201)	CCSRCH221J50
C	483	(B,126,199)	CCSRCH221J50
C	487	(B,84,160)	CKSRYB102K50
C	488	(B,81,160)	CKSRYB102K50
C	489	(B,74,163)	CKSRYB102K50
C	490	(A,71,163)	CKSRYB102K50

I ROTARY ENCODER ASSY

MISCELLANEOUS

S	502	(A,263,225) SWITCH	VSG1024
S	503	(A,282,225) SWITCH	VSG1024
S	504	(A,300,225) SWITCH	VSG1024
S	505	(A,300,212) SWITCH	VSG1024
S	506	(A,282,212) SWITCH	VSG1024
S	507	(A,263,212) SWITCH	VSG1024
S	513	(A,285,154) ROTARY ENCODER	XSX3005
	511	(A,257,183) CABLE HOLDER(5P)	51063-0505

RESISTORS

R	503	(B,275,224)	RS1/16S681J
R	504	(B,294,224)	RS1/16S821J
R	505	(B,301,219)	RS1/16S122J

Mark	No.	Description	Part No.
R	506	(B,294,213)	RS1/16S162J
R	507	(B,275,213)	RS1/16S272J

J POWER KEY ASSY

MISCELLANEOUS

D	501	(A,37,229) LED(BLUE)	SLR343BC4T(JKLM)
S	501	(A,29,226) SWITCH	VSG1024
	501	(A,40,210) CABLE HOLDER(3P)	51063-0305

RESISTORS

R	501	(B,37,234)	RS1/16S391J

K JOG ASSY

MISCELLANEOUS

S	512	(A,96,226) ROTARY ENCODER	XSX3009
	512	(A,66,236) CABLE HOLDER(3P)	51063-0305

M DIGITAL INPUT ASSY

MISCELLANEOUS

F	1901	(B,214,228) INDUCTOR	CTF1295
JA	1900	(A,206,201) OPT. LINK IN	GP1FAV51RKBF
JA	1901	(A,220,201) OPT. LINK IN	GP1FAV51RKBF
KN	1902	(A,249,206) SCREW PLATE	VNE1948
CN	1903	(A,236,221) CONNECTOR	VKN1181

RESISTORS

R	1900	(B,211,215)	RS1/16S101J
R	1901	(B,222,215)	RS1/16S101J

CAPACITORS

C	1900	(B,205,215)	CKSRYB104K25
C	1901	(B,217,215)	CKSRYB104K25
C	1903	(B,211,230)	CKSRYB103K50
C	1904	(A,208,228)	CEAL101M10
C	1905	(B,228,233)	CKSRYB104K25
C	1906	(B,230,233)	CKSRYB103K50
C	1907	(B,232,233)	CCSRCH101J50
C	1908	(B,236,233)	CKSRYB102K50

N REGULATOR ASSY

MISCELLANEOUS

⚠ IC	801	(A,147,89)	REGULATOR IC	KIA7812API
⚠ IC	802	(A,164,89)	REGULATOR IC	KIA7912PI
⚠ IC	807	(A,198,89)	REGULATOR IC	BA50BC0T
⚠ IC	808	(A,181,89)	REGULATOR IC	BA50BC0T
D	810	(A,172,94)	DIODE	MTZJ6R2(B)
D	813	(A,187,94)	DIODE	MTZJ6R2(B)
CN	800	(A,194,113)	11PJUMPER CONNECTOR	52147-1110

RESISTORS

R	801	(A,136,95)	METAL OXIDE RESISTOR	RS3LMF331J
R	819	(B,195,96)		RS1/16S0R0J

CAPACITORS

C	803	(B,147,97)	CKSRYB103K25
C	804	(B,166,97)	CKSRYB103K25
C	805	(A,147,105)	CEJQ101M16
C	806	(A,159,99)	CEAT101M16
C	816	(A,191,94)	CEAT101M10
C	817	(B,202,98)	CKSRYB103K25
C	818	(B,182,95)	CKSRYB103K25
C	819	(A,176,95)	CEAT221M10

O HEAD PHONE ASSY

MISCELLANEOUS

Q	1551	(B,208,48) TRANSISTOR	2SC5938A
Q	1552	(B,203,39) TRANSISTOR	2SC5938A
J	47	6P PARALLEL WIRE	XDX3065
JA	1551	(A,163,30) HEADPHONE JACK	XKB3066
KN	1551	(A,193,23) WRAPPING TERMINAL	VNF1084
	1551	(A,220,28) 6P CABLE HOLDER	51048-0600

RESISTORS

⚠ R	1551	(A,218,56)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	1552	(A,207,42)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	1553	(A,202,45)	METAL OXIDE RESISTOR	RS1LMF151J
⚠ R	1554	(A,194,45)	METAL OXIDE RESISTOR	RS1LMF151J
R	1555	(B,208,32)		RS1/16S472J
R	1556	(B,210,43)		RS1/16S472J
R	1557	(B,212,30)		RS1/16S102J

CAPACITORS

C	1551	(B,194,40)	CKSRYB223K50
C	1552	(B,205,49)	CKSRYB223K50
C	1553	(B,169,39)	CKSRYB103K50
C	1554	(B,169,37)	CCSRCH471J50
C	1555	(B,169,34)	CKSRYB104K16
C	1556	(B,167,24)	CKSRYB103K50
C	1557	(B,170,24)	CCSRCH471J50
C	1558	(B,172,24)	CKSRYB104K16
C	1561	(A,196,64) ELECT. CAPACITOR	CEANP470M50
C	1562	(A,215,44) ELECT. CAPACITOR	CEANP470M50

P VIDEO ASSY

MISCELLANEOUS

IC	301	(B,46,32)	VIDEO SW IC	NJM2595M
IC	303	(B,37,73)	VIDEO SW IC	NJM2243M
IC	851	(B,100,70)	CHARACTER GENERATOR	PDC162A
⚠ Q	301	(A,86,47)	TRANSISTOR	2SD1858X
⚠ Q	302	(A,66,52)	TRANSISTOR	2SB1237X
Q	303	(B,24,81)	TRANSISTOR	2SC5938A
Q	852	(B,72,83)	TRANSISTOR	2SC4081
D	301	(B,44,40)	DIODE	1SS355
D	302	(B,41,44)	DIODE	1SS355
D	303	(B,81,61)	DIODE	UDZS6R2(B)
D	304	(B,73,59)	DIODE	UDZS6R2(B)
D	307	(B,99,26)	DIODE	UDZS5R1(B)
D	308	(B,60,23)	DIODE	DAN202U
D	359	(B,93,53)	DIODE	1SS355
D	360	(B,96,48)	DIODE	1SS355
D	651	(B,76,75)	DIODE	DAP202K
L	302	(B,34,9)	CHIP SOLID INDUCTOR	QTL1013
L	303	(B,26,13)	CHIP SOLID INDUCTOR	QTL1013
L	304	(B,26,15)	CHIP SOLID INDUCTOR	QTL1013
L	305	(B,21,23)	CHIP SOLID INDUCTOR	QTL1013
L	306	(B,72,10)	CHIP SOLID INDUCTOR	QTL1013

Mark	No.		Description	Part No.
	L	853	(B,101,61) CHIP COIL	LCYA330J2520
	JA	305	(A,14,58) PIN JACK(4P)YELLOW	XKB3048
	JA	351	(A,15,20) MINI JACK(4P) /W SW	XKN3015
	JA	352	(A,18,9) JACK	VKB1243
	X	851	(A,102,57) CRYSTAL RESONATOR (14.31818 MHz)	ASS1056
	CN	302	(A,64,84) 6P SOCKET	KP200TA6L
	CN	303	(A,81,7) CONNECTOR	9604S-19C
	CN	306	(A,14,37) 2P PIN JACK	XKB3041
	CN	310	(A,46,7) CONNECTOR	9604S-07C
	CN	354	(A,105,20) CONNECTOR POST	B2B-PH-K-S

RESISTORS

	R	301	(B,37,20)	RS1/16S750J
	R	302	(B,31,60)	RS1/16S750J
	R	303	(B,31,33)	RS1/16S750J
	R	304	(B,31,66)	RS1/16S750J
	R	305	(B,23,51)	RS1/16S750J
	R	306	(B,28,51)	RS1/16S750J
	R	307	(B,56,25)	RS1/16S102J
	R	308	(B,57,29)	RS1/16S102J
	R	309	(B,57,27)	RS1/16S151J
	R	310	(B,57,31)	RS1/16S102J
	R	311	(B,42,23)	RS1/16S102J
	R	312	(B,60,25)	RS1/16S102J
⚠	R	313	(A,85,57) METAL OXIDE RESISTOR	RS3LMF390J
	R	314	(B,84,61)	RS1/16S152J
	R	315	(B,64,59)	RS1/16S152J
⚠	R	316	(A,67,39) METAL OXIDE RESISTOR	RS3LMF390J
	R	317	(B,22,75)	RS1/16S102J
	R	318	(B,26,77)	RS1/16S122J
	R	319	(B,26,75)	RS1/16S472J
	R	390	(B,73,15)	RS1/16S102J
	R	391	(B,34,39)	RS1/16S0R0J
	R	392	(B,33,54)	RS1/16S0R0J
	R	393	(B,49,39)	RS1/16S0R0J
	R	394	(B,26,27)	RS1/16S0R0J
	R	852	(B,101,49)	RS1/16S471J
	R	853	(B,94,47)	RS1/16S103J
	R	854	(B,92,60)	RS1/16S103J
	R	855	(B,105,82)	RS1/16S102J
	R	856	(B,78,80)	RS1/16S221J
	R	857	(B,74,80)	RS1/16S103J
	R	858	(B,73,69)	RS1/16S222J

CAPACITORS

	C	304	(B,35,18)	CKSRYB221K50
	C	305	(B,23,66)	CKSRYB221K50
	C	306	(B,25,51)	CKSRYB221K50
	C	307	(A,35,36)	CEAT470M25
	C	308	(A,52,54)	CEAT470M25
	C	309	(A,31,46)	CEAT470M25
	C	310	(A,54,43)	CEAT101M16
	C	311	(B,82,48)	CKSRYB473K25
	C	313	(B,75,42)	CKSRYB473K25
	C	333	(B,22,77)	CKSRYB331K50
	C	338	(A,60,38)	CEAT101M16
	C	339	(B,37,24)	CKSRYB104K25
	C	340	(B,56,37)	CKSRYB104K25
	C	347	(B,56,22)	CCSRCH470J50
	C	350	(A,38,80)	CEAT101M16
	C	379	(B,31,54)	CKSRYB103K50
	C	380	(A,43,74)	CEAT101M16
	C	390	(A,30,75) ELECTR.CAPACITOR	CEAT102M10
	C	391	(A,49,65)	CEAT470M16
	C	392	(B,49,67)	CKSRYB104K25
	C	444	(B,46,67)	CKSRYB104K25
	C	851	(A,82,80)	CEAT101M10
	C	852	(A,90,71)	CEAT101M10
	C	853	(B,107,82)	CKSRYB473K25
	C	854	(B,91,62)	CKSRYB473K25
	C	855	(B,106,53)	CCSRCH150J50
	C	856	(B,103,53)	CCSRCH180J50
	C	857	(B,101,53)	CCSRCH240J50
	C	858	(B,99,53)	CCSRCH240J50
	C	859	(B,99,47)	CCSRCH470J50
	C	860	(B,98,82)	CKSRYB473K25
	C	861	(B,100,82)	CKSRYB473K25
	C	862	(B,102,82)	CCSRCH101J50
	C	864	(A,68,76)	CEAT101M10
	C	1360	(B,18,51)	CKSRYB103K50

Q PRIMARY ASSY

MISCELLANEOUS

⚠	IC	51	(B,236,11) IC	NJM78L05UA
	Q	51	(B,267,14) DIGITAL TR(SC-70)	RT1N431M
	D	51	(B,298,20) BRIDGE DIODE	DF06SA
	D	55	(A,304,21) DIODE	1SR139-400
	D	56	(A,271,21) DIODE	1SS133
	D	57	(A,266,25) DIODE	1SS133
	D	58	(A,314,13) DIODE	MTZJ5R1(B)
⚠	L	51	(A,253,73) LINE FILTER	XTF3004
	H	51	(A,231,34) FUSE CLIP	AKR7001
	H	52	(A,250,34) FUSE CLIP	AKR7001
	J	52	JUMPER WIRE	D20PYY0410E
	KN	51	(A,318,25) WRAPPING TERMINAL	VNF1084
	KN	3001	(A,223,117) SCREW PLATE	VNE1948
⚠	RY	51	(A,271,57) JOE LOWPOWER RELAY	ASR7013
⚠	T	51	(A,288,56) STANDBY TRANSFORMER	ATT7040
⚠	CN	51	(A,236,47) AC CODE SOCKET	RKP1751
		55	(A,317,9) 4P CABLE HOLDER	51048-0400

RESISTORS

	R	52	(A,275,11)	RD1/2PM270J
	R	53	(A,307,12)	RD1/4PU332J
	R	54	(A,319,16)	RD1/4PU103J

CAPACITORS

⚠	C	51	(A,261,64) FILM CAPACITOR	ACE7013
⚠	C	52	(A,265,57) SAFETY CAPACITOR	XCG3010
	C	53	(A,291,21) ELECT. CAPACITOR	CEAT102M16
	C	54	(A,300,11)	CEAT470M25
	C	55	(A,307,21)	CKPUYF103Z25
	C	56	(A,311,21)	CKPUYF103Z25
	C	57	(A,314,21)	CKPUYF103Z25

R FRONT VIDEO ASSY

MISCELLANEOUS

	JA	902	(A,167,224) 3P PIN JACK	XKB3063

Mark	No.		Description	Part No.
	CN	901	(A,126,230) CONNECTOR POST	B5B-PH-K-S

RESISTORS

	R	901	(B,161,224)	RS1/16S331J
	R	902	(B,176,220)	RS1/16S331J
	R	903	(B,157,224)	RS1/16S474J
	R	904	(B,171,220)	RS1/16S474J
	R	905	(B,139,233)	RS1/16S750J

CAPACITORS

	C	901	(B,164,224)	CCSRCH101J50
	C	902	(B,178,220)	CCSRCH101J50
	C	903	(A,136,234) ELECTR. CAPACITOR	CEAL470M25
	C	906	(B,161,233)	CKSRYB224K16
	C	907	(B,163,233)	CKSRYB471K50
	C	908	(B,158,233)	CKSRYB103K25
	C	909	(B,153,233)	CKSRYB224K16
	C	910	(B,151,233)	CKSRYB471K50
	C	911	(B,148,233)	CKSRYB103K25
	C	915	(B,159,224)	CCSRCH101J50
	C	916	(B,173,220)	CCSRCH101J50

T FRONT IN ASSY

MISCELLANEOUS

	IC	951	(B,37,70) DUAL OP-AMP	NJM4565MD
	IC	952	(A,59,63) IC	TC4066BFN
	Q	951	(A,51,60) TRANSISTOR	RT1N241M
	Q	952	(B,52,66) DIGITAL TR(SC-70)	RT1P241M
	D	951	(B,44,73) DIODE	UDZS5R1(B)
	D	952	(A,38,97) DIODE	UDZS5R1(B)
	D	953	(A,38,93) DIODE	UDZS5R1(B)
	D	957	(B,30,59) DIODE	DAN217U
	L	970	(A,60,38) COIL	ATH7015
	JA	952	(A,78,58) STEREO MINI JACK	XKN3017
	JA	953	(A,79,38) USB CONNECTOR	XKP3086
	KN	951	(A,46,34) WRAPPING TERMINAL	VNF1084
	CN	953	(A,40,51) CONNECTOR	B4B-PH-K-S
	CN	956	(A,46,97) CONNECTOR	9604S-09C

RESISTORS

	R	953	(A,38,72)	RS1/16S682J
	R	954	(B,35,62)	RS1/16S101J
	R	955	(A,50,67)	RS1/16S104J
	R	956	(A,68,68)	RS1/16S102J
	R	957	(B,35,58)	RS1/16S104J
	R	958	(A,70,71)	RS1/16S104J
	R	959	(B,43,66)	RS1/16S333J
	R	960	(B,39,62)	RS1/16S472J
	R	961	(B,41,67)	RS1/16S101J
	R	962	(B,32,77)	RS1/16S101J
	R	963	(A,37,81)	RS1/16S104J
	R	966	(B,38,77)	RS1/16S472J
	R	967	(B,36,77)	RS1/16S333J
	R	972	(A,48,70)	RS1/16S102J
	R	979	(B,61,33)	RS1/16S0R0J
	R	980	(B,61,42)	RS1/16S0R0J
	R	981	(A,69,68)	RS1/16S223J
	R	982	(A,69,65)	RS1/16S103J
	R	984	(A,54,60)	RS1/16S103J

CAPACITORS

Mark	No.		Description	Part No.
	C	952	(B,35,54)	CKSRYB103K50
	C	953	(B,33,54)	CKSRYB104K50
	C	956	(A,43,68) CHIP ELECT.CAPACITOR	CEVW100M50
	C	957	(A,52,70)	CKSRYB103K50
	C	958	(A,43,79) CHIP ELECT.CAPACITOR	CEVW100M50
	C	959	(A,48,67)	CKSRYB471K50
	C	960	(B,33,59)	CCSRCH101J50
	C	962	(A,37,78)	CKSRYB103K50
	C	963	(A,34,104) CHIP ELECT.CAPACITOR	CEVW100M50
	C	964	(B,34,77)	CCSRCH330J50
	C	965	(B,45,66)	CCSRCH330J50
	C	967	(A,35,67) CHIP ELECT.CAPACITOR	CEVW100M50
	C	968	(A,32,79) CHIP ELECT.CAPACITOR	CEVW100M50
	C	969	(B,60,47)	CKSRYB104K16
	C	970	(A,50,46)	CEVW101M16

V HDMI & DSP & USB ASSY

SEMICONDUCTORS

⚠	IC	1,2	PQ1LAX95MSPQ
⚠	IC	61	NJM2886DL3-33
⚠	IC	71	MD5001T
⚠	IC	91	NJM2872BF05
	IC	101	AK4114VQ
	IC	171	TC74VHC157FTS1
	IC	191,331,881	TC74VHC08FTS1
	IC	201	DSPC56371AF180
	IC	202	TC7WH125FU
	IC	251	PDC173A8
	IC	261	TC7WHU04FU
	IC	271	ML87V5002
	IC	301	AK4626AVQ
	IC	351	TC74VHCT541AFTS1
	IC	401	TCC8600-00X-EA-UG
⚠	IC	402	S-1200B18-M5
	IC	461	HY57V641620FTP-6
	IC	462	AYW7236
⚠	IC	471	AAT4618IGV-0.5-1
	IC	481	341S2154
	IC	611	CXB1444R
	IC	631	S-24CS02AFT
	IC	632	TC74LVX4053FT
	IC	651	SII9013CLU
	IC	701	SII9134CTU
	IC	801	PEG118A
	IC	861	AYW7202
	IC	871	TC74VHC125FTS1
	IC	882	TC74VHCT08AFTS1
⚠	IC	891	NJM2872BF33
	Q	71,602,604,631	DTC114YUA
	Q	201	RT1N241M
	Q	401	2SA1577
	Q	402,471,632,634	RT1N431M
	Q	601,603,633,635	RT1P241M
	Q	751	UMB1N
	Q	752	DTC114YUA
	D	1,21	UDZS5R6(B)
	D	61	RB551V-30
⚠	D	71	D1FM3
	D	301	MA152WA

Mark	No.	Description	Part No.
D	302		MA152WK
D	701		UDZS5R1(B)
D	861		RB501V-40

MISCELLANEOUS

Mark	No.	Description	Part No.
L	1-3	CHIP SOLID INDUCTOR	ATL7002
L	71,611,651,652	CHIP BEADS	ATL7010
⚠ L	72	POWER INDUCTOR(22U)	DTL1100
L	101,102	CHIP SOLID INDUCTOR	QTL1013
L	171,191	CHIP SOLID INDUCTOR	QTL1013
L	201,204	CHIP SOLID INDUCTOR	QTL1013
L	202,203	CHIP SOLID INDUCTOR	ATL7002
L	251,261	CHIP SOLID INDUCTOR	QTL1013
L	271,301	CHIP SOLID INDUCTOR	QTL1013
L	302,331	CHIP SOLID INDUCTOR	QTL1013
L	351,401	CHIP SOLID INDUCTOR	QTL1013
L	402	INDUCTOR	LCTC100K1608
L	403,404	CHIP SOLID INDUCTOR	QTL1013
L	441	CHIP FERRITE BEADS	VTL1169
L	442	COIL	VTH1043
L	461,462	CHIP SOLID INDUCTOR	QTL1013
L	481	CHIP SOLID INDUCTOR	QTL1013
L	653-655	CHIP SOLID INDUCTOR	QTL1013
L	656,657,701-705	CHIP BEADS	ATL7010
⚠ L	751-754	COIL	ATH7022
L	801	CHIP BEADS	ATL7010
JA	101	JACK	VKB1159
JA	601,602,701	HDMI CONNECTOR	AKP1318
X	261	CRYSTAL RESONATOR (24.576 MHz)	XSS3003
X	402	CRYSTAL OSCILLATOR	CSS1614
X	481	CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172
X	651	CRYSTAL RESONATOR (28.322 MHz)	ASS7085
X	801	CERAMIC RESONATOR (15.7 MHz)	XSS3004
CN	1	13P SOCKET	XKP3077
CN	2	21P SOCKET	XKP3081
CN	3	CONNECTOR	9604S-35C
CN	5	5P CONNECTOR	VKN1374
CN	401	CONNECTOR	AKM1275
CN	801	7P CONNECTOR	VKN1411
JH	501	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	21		RS1/16SS2002F
R	22,24,74		RS1/16SS1202F
R	23		RS1/16SS1000F
R	42,44,45,48		RAB4CQ104J
R	51,62,64,92		RS1/16S0R0J
R	63,77,80		RS1/10S0R0J
R	75		RS1/16SS5100F
R	76		RS1/16SS1002F
R	103,108,171,173		RAB4CQ101J
R	110,442,443		RS1/16S0R0J
R	111		RS1/16SS1802F
R	172,226,229,272		RAB4CQ470J
R	174,202,271,273		RAB4CQ101J
R	191-193		RS1/16S101J
R	203		RAB4CQ103J
R	279,317,353,354		RAB4CQ101J
R	306		RS1/16S4R7J
R	488		RS1/16SS1003F
R	607-610,621-625		RS1/16S0R0J
R	612		RS1/16SS4701F
R	663		RAB4CQ470J
R	668,669,721		RAB4CQ473J
R	681-685,687,688		RAB4CQ220J
R	704		RS1/16SS6800F
R	723-728		RAB4CQ473J
R	764		RAB4CQ220J
R	781-785,891		RS1/16S0R0J
Other Resistors			RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
C	7,78,107,173		CKSSYB102K50
C	9,74,92,113		CKSSYB103K16
C	10,12,172,203		CKSSYB471K50
C	11,102,105,106		CKSSYB104K10
C	21,51,230,303		CEVW101M16
C	22-25		CKSRYB105K10
C	52,54,55		CKSRYB104K16
C	57-59,63,65		CKSRYB104K16
C	61,613,654,655		CKSRYB105K16
C	62,93,421,893		CKSQYB225K10
C	67,70,91,441		CKSRYB104K16
C	71-73,80,82		DCH1201
C	75		CCSSCH121J50
C	77		CKSSYB473K16
C	79		CCSSCH471J16
C	85,86		CKSRYB102K50
C	87		CCSRCH101J50
C	103,108,318		CEVW470M6R3
C	104,110,192,261		CCSRCH471J50
C	109,171,191,202		CKSSYB104K10
C	111		CKSRYB474K10
C	204,206,208,210		CKSSYB104K10
C	209,214,216,218		CKSSYB471K50
C	215,217,219,222		CKSSYB104K10
C	220,301,431,667		CKSSYB103K16
C	221,225,309-314		CKSSYB471K50
C	224,226,228,232		CKSSYB104K10
C	229		CEVW101M4
C	252,262,271,273		CKSSYB104K10
C	264,265		CCSSCH8R0D50
C	275,277,304,306		CKSSYB104K10
C	305,484,802,805		CCSSCH101J50
C	315,425,443,455		CEVW101M16
C	316,320,332,352		CKSSYB104K10
C	317,402,404,406		CKSSYB471K50
C	321,322		CKSSYB102K50
C	401,403,405,407		CKSSYB104K10
C	408,410,412,416		CKSSYB471K50
C	409,411,415,417		CKSSYB104K10
C	413		CCSRCH100D50
C	414		CCSRCH471J50
C	418,424,427,430		CKSSYB471K50
C	419,423,426,429		CKSSYB104K10
C	420		CKSSYB122K50
C	422		CCSRCH331J50
C	432,434,454,461		CKSSYB104K10
C	433,435,436		CKSSYB471K50
C	442,861,873		CKSRYB104K16
C	451,457		CKSQYB105K10
C	462-464,466,468		CKSSYB471K50

Mark	No.	Description	Part No.
	C	467,481,485,611	CKSSYB104K10
	C	471	CKSSYB104K16
	C	472	CKSQYB105K16
	C	482,483	CCSSCH5R0C50
	C	486	CKSSYB471K50
	C	612,801	CEVW101M16
	C	614-624,631,632	CKSSYB104K10
	C	651,656,701,703	DCH1201
	C	652,653,702,704	CKSQYB106K6R3
	C	657,672,679,712	CKSRYB105K16
	C	661-666,668-671	CKSSYB104K10
	C	673-677,680-683	CKSSYB104K10
	C	678,713,803,892	CKSSYB103K16
	C	691	CCSSCH120J50
	C	692	CCSSCH100D50
	C	705	CKSQYB106K6R3
	C	711,714,716,718	CKSSYB104K10
	C	715,717,719,723	CKSRYB105K16
	C	720-722,751,804	CKSSYB104K10
	C	724	CKSRYB105K16
	C	731-738	VCG1066
	C	806,807,862,871	CKSSYB104K10
	C	808	CCSSCH101J50
	C	872,881,882,891	CKSSYB104K10

W HDMI ASSY (VSX-818V-K)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	101	CXB1444R
	IC	102	TC7MB3253FK
⚠	IC	901	MM1593DF
⚠	IC	911	NJM2872BF05
	Q	121-123,152,154	RT1N241M
	Q	151,153	RT1P241M
	D	381	UDZS5R1(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
	L	101,1001 CHIP BEADS	ATL7010
⚠	L	351-354 COIL	ATH7022
	JA	101,102,301 HDMI CONNECTOR	AKP1318
	CN	1001 7P CONNECTOR	52044-0745
	CN	1002 5P CONNECTOR	VKN1236

RESISTORS

Mark	No.	Description	Part No.
	R	102	RS1/16S4701F
	R	121-123	RS1/16SS103J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C	101,102,104-111	CKSRYB104K16
	C	103	CEVW101M16
	C	113-115,351,911	CKSRYB104K16
	C	121	CKSSYB104K10
	C	901	CKSRYB105K16
	C	902	CCSRCH471J50
	C	903,913	CKSQYB225K10
	C	912	CKSRYB103K50
	C	1001,1011	CKSRYB104K16
	C	1002	DCH1201
	C	1012	CKSRYB102K50
	C	1013	CCSRCH101J50

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.